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February 21, 2005

Mr. John H. Robertus
Executive Director
California Regional Water Quality Control Board – San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340

2005 FEB 22 A IO: 07

Dear Mr. Robertus:

Subject: TSMC:40-0054.02:dorsk

Testimony Relative to Tentative Addendum No. 5 to Cleanup and Abatement Order No. 92-01,

Mission Valley Terminals, San Diego

I am submitting the attached written testimony on behalf of Shell Oil Products US (Shell) to be considered by the Regional Board at the March 9, 2005 Regional Board Meeting. I am also planning on making a formal presentation at this Board meeting using excerpts from the attached written testimony as well as a few PowerPoint slides. As you can determine from the attached testimony, Shell is renewing its request to be removed as a named party to Cleanup and Abatement Order No. 92-01 including proposed Addendum No. 5 which will be discussed at the Board Meeting on March 9th.

If you or your staff have any questions related to this testimony, please feel free to contact me using my contact information provided above. Your consideration in this matter is greatly appreciated.

Sincerely,

Curtis C. Stanley

Principal Consultant

Testimony by Shell Oil Company Relative to Tentative Addendum No. 5 To Cleanup and Abatement Order No. 92-01 Presented at the March 9, 2005 California Regional Water Quality Control Board (San Diego Region) Regional Board Meeting in San Diego, CA

This testimony is presented on behalf of Shell Oil Company (Shell) and its various operating entities including Texaco Inc., Equiva Services LLC, Texaco Refining and Marketing Inc., Shell Oil Products US, and Equilon Enterprises, LLC (collectively Equilon) relative to the San Diego Mission Valley Terminal.

Over the past four years, Shell has clearly demonstrated that it should no longer be a party to Cleanup and Abatement Order (CAO 92-01) including subsequent Addenda. Accordingly, as described later in this testimony, Shell has previously requested that the San Diego Regional Water Quality Control Board (Board) approve the "Shell/Texaco Petition Request for Removal From CAO 92-01 submitted December 5, 2003. If the Board believes that a separate Order is needed, Shell requests that a separate Order be issued for the limited and distinct plumes associated with the former Shell lease (now Kinder Morgan) and the former Texaco lease (now Shell).

BASIS FOR REMOVAL FROM CAO 92-01

Shell/Texaco Site Conceptual Model

Following completion of extensive assessment activities in 2001, Shell (Equilon) provided the Board with a comprehensive and accurate understanding of the contamination at the Mission Valley Terminal (MVT) within its Site Conceptual Model (Site Conceptual Model submitted to the Board in November 2001 and is incorporated here by reference). The Board acknowledged these findings as most representative of the facts in correspondence dated July 24, 2003 (see "San Diego Regional Water Quality Control Board Approval of Shell's Site Conceptual Model" section below). During arbitration proceedings, Judge Robert T. Altman (Ret.) the arbitrator and arbitration Technical Master Dr. Richard Jackson also concluded that Shell's Site Conceptual Model accurately represented the true facts regarding the site. The key findings included within the Shell's Site Conceptual Model include:

- ➤ The source of the contamination at the Kinder Morgan manifold area is likely the Powerine pipeline failure or untested Kinder Morgan pipelines as indicated by the elevated LIF responses detected in this area (Figure 38), soil staining observed during soil excavations of Kinder Morgan delivery lines, and the similar product type identified in LF-4 as was originally identified in 1991 and 1992 by Freidman & Bruya.
- ➤ The source of contamination in the stadium parking lot is the large continuous gasoline plume emanating from the manifold area through buried stream channels as indicated by the CPT/LIF investigations and similar product types detected in NAPL samples collected from the manifold area south to the stadium parking lot (Figures 39-41).

- > The Texaco-branded pipelines are not leaking as indicated by hydrostatic testing, tracer testing, pipeline excavations, and soil sampling results.
- > Free product associated with the isolated T-09 release was limited in extent and remediated promptly by Texaco. The T-09 release did not commingle with the core plume.
- ➤ Hydrocarbon impacts associated with the Texaco plume are chemically different from the core plume (Figures 39-41).
- > The contamination on the Shell terminal is limited in extent and nature and does not extend beyond the Mobil terminal.

Arbitration Proceedings "Opinion and Award" (Exhibit A)

In an attempt to blame Shell/Texaco with the core plume, Kinder Morgan filed a lawsuit (March 2000) against Shell alleging that Equilon (formerly the Texaco terminal) was the source of the core plume and that Shell should pay for all of the past and future cleanup costs of the MVT Site, as required by CAO 92-01. At that point in time Kinder Morgan had already settled with Powerine and Mobil and indemnified them for any costs relating to the cleanup of MVT associated with the CAO. While historically SFPP (Kinder Morgan) stated Powerine had created the plume, after settling with Powerine, Kinder Morgan changed its site conceptual model and asserted the holes discovered in Powerine's pipeline in the manifold area in June 1992 were not the source of the plume.

The competing views were tested in a six-week arbitration before Judge Altman in Los Angeles, California between January and February 2003. Both parties presented evidence, argument, and witnesses to assert why their respective site conceptual model was correct. The Arbitrator ruled in favor of the Shell Site Conceptual Model and stated on March 21, 2003 that:

- 1. "There is a continuous plume running from the Manifold through the canyon and the west side of the Texaco property and then under the Qualcomm parking lot. There has never been a "gap."
- 2. "Shell product, either as NAPL, free or dissolved, has not migrated from the Shell property to the Manifold and has **not** contributed to the core plume."
- 3. "Texaco has **not** contributed to the core plume."
- 4. "The Texaco plume has **not** merged with the core plume."

As part of the arbitration, Dr. Jackson was hired (by both parties) as a highly respected and unbiased Technical Master to assist Judge Altman. Dr. Jackson described Shell's Site Conceptual Model as follows: "The Defense's model relies, as a well-engineered structure should, on careful analysis of data and material properties." "Therefore, the Defendant's Conceptual Site Model - Exhibit 1209 - is accepted as being a reliable portrayal of the contamination events within the Mission Valley aquifer since 1987." In reference to Kinder Morgan's Site Conceptual Model, Dr. Jackson stated the following:

"I conclude that the Plaintiff's argument - that the gasoline contamination beneath the Qualcomm stadium parking lot (QSP) is caused by spills at the Texaco/Equilon facility - is unproven and incorrect."

Based on these findings the arbitrator ruled in favor of Shell on all causes and actions in the Award as follows:

- 1. Shell and Texaco had not breached any provisions of their leases.
- 2. Shell and Texaco have to date, at their own expense, complied with Health Department and Regional Water Board Orders.
- 3. Kinder Morgan is to take full responsibility for remediation and compliance with all Health Department and Water Board Orders related to the contamination at the Mission Valley Terminal and Qualcomm Stadium including under the Shell and Texaco properties.
- 4. Kinder Morgan is to indemnify and hold harmless Shell and Texaco for all liability arising from its failure to complete the cleanup work and any failure to comply with past or future Orders of the Health Department and Water Board.
- 5. Cleanup work at the Shell property is estimated to be minimal. Groundwater monitoring and possible remediation of the tank draw line area are required. Shell is ordered to pay Kinder Morgan \$150,000 to assume all of Shell's remediation costs.
- 6. Texaco ordered to pay Kinder Morgan \$565,000 to assume all of Texaco's remediation costs to remediate the T-09 spill and monitor all of Texaco's wells.
- 7. Kinder Morgan ordered to reimburse Texaco for all costs that they incurred remediating the core plume and for the parties to settle remediation costs incurred as a result of the Cost Sharing Agreement.

These rulings were based on the testimony provided by the parties, which clearly demonstrated that the Shell Site Conceptual Model accurately defined the release scenario and hydrocarbon distribution of the core plume as well as the Shell and Texaco plumes. Based on the site data and lack of operation of the groundwater remediation system, the arbitrator assigned the liability associated with the cleanup of the core plume to SFPP/Kinder Morgan.

The following findings of liability were detailed within the arbitrator's award and judgment and further demonstrate that SFPP/Kinder Morgan is responsible for the core plume cleanup as required by CAO 92-01 and all penalties and fines resulting from Kinder Morgan's failure to cleanup the plume since 1992.

> Failure to Operate the Remediation System

"It is also clear that beginning in 1994, and continuing until at least 1998, SFPP/Kinder Morgan's remediation efforts were an unmitigated disaster. SFPP/Kinder Morgan completely failed to contain the MTBE in the groundwater and permitted it to extend deep into the Qualcomm lot."

"The unrebutted opinion of Curtis Stanley is that if the 3 pumping wells required by SFPP's 1992 CAP had been operated as proposed, all of the MTBE in the QualComm lot would have been successfully removed when the groundwater was pumped out and treated".

"The point however is that the Board ordered SFPP to "prevent off-site migration of either free or dissolved product," and SFPP agreed to do so by running a pumping system. A company can simply not claim that what it has agreed to do in response to a regulatory agency order is unnecessary and later claim that the resultant consequences were unanticipated."

> Core Plume Distribution

"It is absolutely clear that between 1992 and 1998 every report submitted by SFPP to the Water Board described and mapped a continuous core plume. Nowhere is there a suggestion that Texaco or Shell were responsible for the plume."

> Sources of Contamination

"Further, the most likely sources of the plume appeared to be the manifold area with the untested SFPP lines and the SFPP tank farm – which had shown releases on the soil gas survey."

"Moreover, it came to light on cross examination that Dr. Bruya was for some reason unaware of a January 1993 report from a Phoenix laboratory showing MTBE in a groundwater sample from R-01, and as previously indicated, the contamination at R-01, in the Arbitrator's opinion, could only have come from the Manifold."

"In 1992 SFPP certainly would have liked to assign responsibility for the core plume to Texaco but there was no evidence that Texaco had contributed to the plume."

At the conclusion of the case, Judge Altman ruled, on March 21, 2003, in part: "SFPP is responsible for all the remediation efforts and for compliance with all Health Department and Water Board Orders relating to the remediation of the soil and groundwater at Mission Valley and Qualcomm. . . . SFPP assumes both the responsibility and the risk related to all future remediation and cleanup work on or under the Shell and Texaco properties and on or under all properties at the Mission Valley Terminal subject to Kinder Morgan's control and on or under the entire Qualcomm lot and on or under any locations to which the existing contamination may spread. . . . SFPP is ordered to perform the cleanup and abatement described above and to indemnify and hold harmless Texaco and Shell for any liability arising out of its failure to do the cleanup work and any failure to comply with past or future Orders of the Health Department and Water Board related to the cleanup work." (emphasis added)

As a result of the Arbitration Opinion and Award, SFPP/Kinder Morgan is solely responsible for the cleanup of all existing soil and groundwater contamination originating from the Mission Valley Terminal, regardless of its source and regardless of its past or present location, including all soil and groundwater contamination in Qualcomm and in the San Diego River.

San Diego Regional Water Quality Control Board Approval of Shell's Site Conceptual Model (Exhibit B)

Following a review of the conflicting Site Conceptual Models provided by Shell and Kinder Morgan, the Board acknowledged that the Shell Site Conceptual Model accurately represented the release scenario and plume configuration at the MVT in correspondence dated July 24, 2003. The data provided by Shell was consistent with respect to these two issues. The Board based their conclusions on the following:

- ➤ "The data show a continuous plume of free product on the water table and/or residual free product in soil extending from the manifold area to the northern portion of the Qualcomm Stadium parking lot. This continuous plume is delineated by the soil gas survey, and the cone penetrometer-laser induced fluorescence survey. Monitoring well data also are consistent with this interpretation."
- ➤ "The Shell/Texaco lines under Friars Road do not appear to be a source of the free product, as these lines tested tight in a recent Tracer Tight test, and in previous line tests. Further, soil and water samples from the area where the lines emerge from under Friars Road do not indicate that free product is leaking from these lines."

California Superior Court Hearing and Order (Exhibit C)

A subsequent petition by SFPP/Kinder Morgan to overturn the arbitration ruling was heard by California Superior Court Judge Ralph W. Dau on July 11, 2003. In reference to Judge Altman's opinion of Kinder Morgan's key expert in the arbitration (Dr. Hromadka), Judge Dau stated "It is the most astonishing statement of unreliability of expert testimony I think I have ever seen." Furthermore, the Superior Court ordered that SFPP/Kinder Morgan cleanup the Shell and Texaco properties in accordance with the arbitration ruling and comply with the Board Order to cleanup the core plume in a Judgment dated October 31, 2003. After an off-set for its payment to Kinder Morgan for cleanup of the former Shell and former Texaco sites, Kinder Morgan has paid Shell \$512,000 (including sanctions against Kinder Morgan for an improper attempt to overturn Judge Altman's Award) for costs Shell unnecessarily incurred relating to Kinder Morgan's core plume.

Settlement and Release Agreement (October 2004) Between Shell and the City of San Diego

After the Arbitration Opinion and Award and Superior Court Order, Shell voluntarily approached the city of San Diego for settlement of all potential damages. As part of this agreement, the City of San Diego released Shell from "claims relating to past contamination at or emanating from the former Shell terminal at Mission Valley, the former Texaco terminal at Mission Valley, or the current Shell terminal at Mission Valley."

CONCLUSIONS

The Board has formally concurred with Shell's Site Conceptual Model which demonstrates that petroleum hydrocarbons associated with the former Shell (now Kinder Morgan) and former Texaco (now Shell) leases are limited in nature and distinct from the core plume. As a result of the judgment entered by the court, Kinder Morgan is legally responsible for the cleanup of all existing contamination originating from the Mission Valley Terminal, regardless of its source. The results of the investigations undertaken during the past several years establish that the contamination at the former Texaco terminal is in fact not commingled with the core plume. To the contrary, they are separate plumes. The investigations have also demonstrated that Shell is not responsible for the core plume.

Kinder Morgan's history of noncompliance unfairly exposes Shell and the Pecten trademark to potential liabilities, including poor public relations and bad press. The consequences of Kinder Morgan's actions, lack of actions, non-compliance and continued ineffective remediation have resulted in damages to Shell/Texaco's reputation, and increases Shell's cost of doing business. This is especially critical since Shell has a significant public presence in California and Kinder Morgan does not. Since the Shell Pecten is the most recognizable trademark at the Terminal, we do not want anyone associating Shell with soil and groundwater contamination that is solely the responsibility of SFPP (Kinder Morgan).

As part of the original Order, SFPP (Kinder Morgan) was required to contain the soluble plume and cleanup the NAPL. Separate from the off-site plume, CAO 92-01 required the drafting of a plan to "cleanup the affected subsurface soils and groundwater underlying the Mission Valley Terminal." Kinder Morgan has failed to even begin to address the contamination in the Mission Valley Terminal. While Kinder Morgan's initial Corrective Action Plan in 1992 included cleanup plans for the Mission Valley Terminal to be completed by January 1999, the work set forth in the plan was never started. Thereafter, in 1999, when Kinder Morgan submitted its new Corrective Action Plan, it again included cleanup plans for the Mission Valley Terminal, however the work set forth in that plan was never started. Thereafter, in 2003, as part of the arbitration with Shell, Kinder Morgan had TRC Alton draft a plan for cleanup of both the off-site and on-site contamination. However, the plan drafted by TRC Alton was never implemented by Kinder Morgan. The final Award required Kinder Morgan to cleanup the Shell Terminal, however to date no cleanup of the on-site contamination has taken place.

In view of the findings of Judge Altman, the Board, and Judge Dau, Shell renews its request to be removed as a party from CAO 92-01 and all Addenda. To the extent that the Board feels that a separate Order is appropriate, Shell would not object to the issuance of a separate Order. A separate Order (if needed) may also assist the Board in the following manner:

- > Proper allocation of resources for the cleanup at the MVT and Qualcomm Stadium.
- > A reduction in agency oversight resulting from on-going management of multiple parties in disagreement on site cleanup.
- Focused resources on specific plume cleanup efforts resulting in reduced risk and decreasing cleanup time. The monies paid to Kinder Morgan to cleanup the Texaco and Shell leased areas should be allocated to those cleanup efforts today while the core plume continues to be remediated.

Thank you for your consideration in this matter.

Testimony by Shell Oil Company Relative to Tentative Addendum No. 5 To Cleanup and Abatement Order No. 92-01 Presented at the March 9, 2005 California Regional Water Quality Control Board (San Diego Region) Regional Board Meeting in San Diego, CA

Exhibit A

1	Robert T. Altman Judge of The Superior Court, Retired
2	ADR SERVICES 1900 Avenue of the Stars, Suite 250
3	Los Angeles, California 90067
4	Phone: (310) 201-0010 Fax: (310) 201-0016
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8	IN THE MATTER OF THE ARBITRATION BETWEEN
9	SFPP/KINDER MORGAN AND TEXACO AND SHELL ¹
10	
11	SFPP/KINDER MORGAN,)
12	Claimants and Counter Respondents) OPINION AND AWARD
13	v. $\left. \left. \left$
14	
15	TEXACO AND SHELL,) Hon. Robert T. Altman
16	Respondents and Counter Claimants
17	<u> </u>
17 18	<u> </u>
	The Arbitrator, having heard the evidence, considered the exhibits, visited the MVT, read
18	The Arbitrator, having heard the evidence, considered the exhibits, visited the MVT, read and considered the briefs and heard argument, rules as follows:
18 19	
18 19 20	and considered the briefs and heard argument, rules as follows:
18 19 20 21	and considered the briefs and heard argument, rules as follows: 1 The Arbitrator is aware that Texaco Refining and Marketing, Inc. was the successor in interest to Texaco Inc. (collectively "Texaco"); that Texaco and Shell Oil Company's ("Shell's") leaseholds are
18 19 20 21 22	and considered the briefs and heard argument, rules as follows: 1 The Arbitrator is aware that Texaco Refining and Marketing, Inc. was the successor in interest to Texaco Inc. (collectively "Texaco"); that Texaco and Shell Oil Company's ("Shell's") leaseholds are geographically separated; that Texaco and Shell entered into a joint venture as Equilon Enterprises, LLC ("Equilon") and that Shell has acquired Texaco's interests and obligations at the MVT and is
18 19 20 21 22 23	and considered the briefs and heard argument, rules as follows: 1 The Arbitrator is aware that Texaco Refining and Marketing, Inc. was the successor in interest to Texaco Inc. (collectively "Texaco"); that Texaco and Shell Oil Company's ("Shell's") leaseholds are geographically separated; that Texaco and Shell entered into a joint venture as Equilon Enterprises, LLC ("Equilon") and that Shell has acquired Texaco's interests and obligations at the MVT and is currently the real party in interest. The Arbitrator is also aware that the MVT was first owned by San Diego Pipeline; that San Diego Pipeline was acquired by SFPP and that in 1998 SFPP was acquired by
18 19 20 21 22 23 24	and considered the briefs and heard argument, rules as follows: 1 The Arbitrator is aware that Texaco Refining and Marketing, Inc. was the successor in interest to Texaco Inc. (collectively "Texaco"); that Texaco and Shell Oil Company's ("Shell's") leaseholds are geographically separated; that Texaco and Shell entered into a joint venture as Equilon Enterprises, LLC ("Equilon") and that Shell has acquired Texaco's interests and obligations at the MVT and is currently the real party in interest. The Arbitrator is also aware that the MVT was first owned by San Diego Pipeline; that San Diego Pipeline was acquired by SFPP and that in 1998 SFPP was acquired by Kinder Morgan ("KM"). For purposes of clarity and simplicity the Arbitrator will at times refer to Shell and Texaco in their individual capacities and at other times refer to them collectively as "Ds."
18 19 20 21 22 23 24 25	and considered the briefs and heard argument, rules as follows: 1 The Arbitrator is aware that Texaco Refining and Marketing, Inc. was the successor in interest to Texaco Inc. (collectively "Texaco"); that Texaco and Shell Oil Company's ("Shell's") leaseholds are geographically separated; that Texaco and Shell entered into a joint venture as Equilon Enterprises, LLC ("Equilon") and that Shell has acquired Texaco's interests and obligations at the MVT and is currently the real party in interest. The Arbitrator is also aware that the MVT was first owned by San Diego Pipeline; that San Diego Pipeline was acquired by SFPP and that in 1998 SFPP was acquired by Kinder Morgan ("KM"). For purposes of clarity and simplicity the Arbitrator will at times refer to

OVERALL VIEW

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the hearing, at recesses and at the end of each session, the Arbitrator sought assistance from and consulted with Dr. Jackson on technical issues. In addition, each evening the Arbitrator prepared written summaries of the day's testimony and reviewed those summaries with Dr. Jackson. Dr. Jackson is a truly "independent" expert with tremendous knowledge of and experience with all of the sciences at issue and he greatly assisted the Arbitrator in understanding and evaluating the evidence.

The MVT was initially owned by San Diego Pipeline, then acquired by SFPP and in 1998 acquired by KM. Beginning in the 1960s, San Diego Pipeline and later SFPP entered into renewable leases with Unocal, Powerine, Shell, Mobil, and Texaco who in turn constructed tank farms and distribution facilities. San Diego Pipeline and SFPP retained control of the Manifold area and developed a tank farm and a distribution facility in order to conduct a third party terminaling business. Subsequent to 1998, KM bought out Powerine and Unocal, assumed their obligations under the 1992 Water Board Order, agreed for a fee to run Mobil's operations and acquired Mobil's third party terminaling business. KM is opposed to Shell, Texaco or Equilon operating a third party terminaling business from the MVT.

The gravaman of P's 18 causes of action is that Texaco and Shell have violated their Leases,

and in the case of Texaco, its Indenture, by failing to accept past and future responsibility for

remediating their leaseholds, the Manifold, the canyon between the Manifold and the Texaco

property and the Qualcom parking lot. Shell contends that to date it has at its own expense

successfully remediated the contamination on its property and it accepts responsibility for

cleaning up any remaining contamination thereon. Texaco contends that to date it has at its

own expense successfully remediated all of the contamination on its property for which it is

responsible and it accepts responsibility for any further remediation that is necessary as a

result of the T-9 spill, including responsibility for the MTBE plume under the east side

Oualcom parking lot, sometimes referred to herein as "the Texaco plume." Texaco and Shell

deny responsibility for any remaining contamination in the Manifold area, the canyon, and

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except for the Texaco plume, in the Qualcom lot.

P seeks reimbursement by way of indemnity for all past expenses related to the 1992 Water Board Order and Amendments thereto and for all future costs related to the Order and Amendments. In addition, P seeks to have Texaco evicted from its property for breaching its Lease and Indenture by failing to bear the past and future costs of remediating the contamination it has caused.³ Each side seeks a declaration of its rights and obligations and a remedy consistent therewith. Further, since 2001 each side has borne 50% of the remediation costs. Each wants to be reimbursed for all or a portion of those costs based on the Arbitrator apportioning costs in its favor.

The clearest way to address the issues before the Arbitrator is to state some of the questions that underlie each side's position and to address those questions by reviewing events chronologically.⁴ A chronological review will demonstrate that many of P's positions are 180 degrees opposite from those taken by P from the early 1990s through 2001.

QUESTIONS

1. Is there a **continuous** plume running from the Manifold through the canyon and the west side of the Texaco property and into the Qualcom parking lot? Put another way, is there a "gap" in what the Arbitrator will refer to as the "core plume?"

³ To the extent that the UD action was predicated on Ds having violated their leases by assigning their leasehold interests to Equilon without P's permission, that issue was bifurcated and decided in Ds' favor by the trial court and is therefor not before the Arbitrator.

⁴ The parties have compiled literally millions of pages of documents and data. It is impossible for the Arbitrator to refer in any detail to that data or to discuss all of the analysis's and conclusions reached by the experts. Rather, the Arbitrator will address the technical issues and conclusions that he deems representative. Further, the Arbitrator will of necessity have to omit without discussion issues and events that one side or the other has deemed significant and will at times have to simply state conclusions. Further, the Arbitrator would ordinarily refer to Exhibits by number. However, given the large number of exhibits, the fact that many exhibits appear as both P and Ds exhibits and the absence of a clerk's exhibit list, the Arbitrator will ordinarily refer to exhibits by name or description. The Arbitrator is satisfied that given counsels' excellent working knowledge of the exhibits, the parties will have little difficulty identifying the exhibits to which the Arbitrator refers.

1 2. Has Shell product migrated from the Shell property to the Manifold or in some other 2 way contributed to the core plume? 3 4 3. Understanding that Texaco has accepted responsibility for the Texaco plume, has 5 Texaco contributed to the core plume? 6 7 4. Has the Texaco plume merged with the core plume? 8 9 1991-1998 10 11 At different times in the 1980s Texaco experienced releases within their operations area, e.g. 12 from the 2000 and 4000 gallon tanks. The releases contained both gasoline and diesel. 13 Texaco reported those releases to the Health Department and drilled numerous wells in an 14 attempt to remediate the contamination and prevent product from migrating under the 15 Oualcom lot. Texaco was successful, and by 1995 it was clear that Texaco product had not migrated beyond the Texaco property and Texaco was given a natural attenuation letter. 16 17 Texaco's efforts and success are in marked contrast to those of SFFP, infra. 18 In 1991 free product was observed in LF-4 and on 1/3/02 the Water Board issued Order No -19 20 92-01 (the "1992 Order" or simply "the Order") pursuant to which SFPP, Shell, Mobil and 21 Powerine were directed to "immediately immobilize and recover all free product from the 22 affected groundwater zone, and immobilize the dissolved product in the soil and groundwater 23 to prevent off-site migration of either free or dissolved product." The initial completion date 24 was 1/1/96. 25 Both prior and subsequent to the 1992 Order, SFPP investigated the source and flow pattern 26 27 of the free product found in LF-4. All of the information obtained by SFPP showed the core 28 plume beginning in the Manifold, continuously migrating downgrade through the canyon and winding up underneath the Qualcom lot. That was how the plume was described by SFPP in its 4/9/92 and 9/l/92 Site Characterization Reports. Moreover SFPP obtained its information from its own experts, Friedman & Bruya and Simon HydroSearch. Friedman & Bruya initially reported that samples from LF-4 appeared to be the same as samples from T-18 and later reported that samples from LF-4, T-18 and R-9 and R-10 appeared to be the same, all containing approximately 90% gasoline and 10% diesel. Moreover the samples were different from those taken from wells on the east side of the Texaco property. Further, the soil gas survey mapped the plume and was consistent with the gradient and the expected groundwater Further R-01 was directly in the path of the plume and contained NAPL, thus "connecting the dots" between LF4 and T-18. Further, it did not appear likely (or possible) that releases from Texaco's operations area could migrate cross gradient to form the core plume. Further, the most likely sources of the plume appeared to be the Manifold area with its untested SFPP lines and the SFPP tank farm -- which had shown releases on the soil gas survey. (If in fact "proximity" is relevant in determining the source of the plume under Qualcom stadium, as P has argued when pointing the finger at Texaco; then absent a gap in the core plume, it is similarly relevant when determining the source of the plume in the area of the Manifold.)

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P's current project manager Dirk Cockrum testified that SFPP simply accepted the initial Friedman and Bruya report and thereafter never seriously analyzed the available data. On the contrary, as indicated above, SFPP and its experts carefully reviewed considerable data. Moreover "low to high" readings⁵ on soil gases and product thickness which P now contends are significant were certainly available to Simon HydroSearch in 1991 and 1992

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 ^{5&}quot;Low to high" summarizes P's contention that because soil gas, product thickness and MTBE readings are lower on the west side of the Texaco property than under the Qualcom parking lot, ipso facto something on the west side of the Texaco property must be the source of the contamination under the Qualcom lot. While at first glance "low to high" does appear to support P's contention, the Arbitrator accepts Dr. Huntley's reasoning and conclusions, infra. That based on the conditions at MVT, "low to high" is completely consistent with a continuous core plume emanating from the Manifold.

and were apparently of no concern. Further, SFPP was hardly reluctant to point the finger at a tenant, namely Powerine, in assessing responsibility and remediation costs, infra.

In 1992 SFPP certainly would have liked to assign responsibility for the core plume to Texaco but there was no evidence that Texaco had contributed to the plume. P certainly wanted Texaco on the 1992 Order; however its argument for including Texaco was not based on any theory that there was a gap in the core plume, but rather on the fact that Texaco was then remediating a plume on the east side of its property, and therefore in SFPP's opinion, should be subject to the jurisdiction of the Water Board rather than the Health Department. In short, SFPP could not find a basis for assigning responsibility for the core plume to Texaco. That was not the case however when it came to Powerine.

In 1992 SFPP ordered all of its tenants to hydrostatically test their lines, choosing however not to test its own lines under the Manifold - despite internal memoranda urging that it do so. All of Texaco and Shell's lines passed testing. In fact, Texaco's 2" gas line passed in both 1992 and 1994. As a result of the testing, it came to light that Powerine had two holes in its line in the area where its line was connected to the Manifold. SFPP insisted, and continued to insist until it reached a settlement with Powerine in 1999, that the holes had allowed product to escape and that Powerine was therefor responsible for a substantial portion of the core plume. In letters to Powerine, SFPP accepted approximately 50% of the responsibility for the core plume (consistent with a belief that product in the plume came from its Manifold and/or tank farm) and assigned approximately 40% of the responsibility to Powerine and 10% to Mobil and Shell (consistent with a belief that releases from Mobil and Shell were confined to their respective properties). Using the same information that was available to KM when it submitted its 2001 Conceptual Site Model, SFPP rejected Powerine's argument that the leaks were caused during pressure testing and insisted that the leaks had been going for some time. It rejected Powerine's arguments based on the Powerine inventory records and the

On 9/1/92, SFPP submitted its Corrective Action Plan (CAP) to the Water Board. The CAP described and mapped a continuous core plume extending from the Manifold to the Qualcom parking lot and proposed 3 pumping wells in the lot. There was no suggestion of any gap in the plume, nor was there any suggestion that the plume emanated from any source other the Manifold.⁶ The cost of remediation was estimated to be \$3.4 million.

It is absolutely clear that between 1992 and 1998 every report submitted by SFPP to the Water Board described and mapped a continuous core plume. Nowhere is there a suggestion that Texaco or Shell was responsible for the plume. Further, SFPP at all times accepted the fact that the plume emanated from the Manifold area and that it and Powerine were the source of the plume. Steve Ferrara's testimony to the contrary was not credible. None of the contemporaneous writings support Mr. Ferrara's understanding of history.

Without going into any detail, it is also clear that beginning in 1994, and continuing until at least 1998, P's remediation efforts were an unmitigated disaster. P completely failed to contain the MTBE in the groundwater and permitted it to extend deep into the Qualcom lot. A good part of the failure was due to simple negligence, e.g. the 1994 jet fuel overrun. However, part of the failure may well have been due to SFPP's belief in natural attenuation as a "be all, end all" solution for releases and spills. Scott Kilkenny, who was with SFPP until it was purchased by KM and who is currently KM's Vice President of Environmental

The first phase of the Plan called for remediation at the south end of the canyon. The second phase called for remediation at the north end. The second phase has never been implemented because the first phase has not been completed.

⁷ By comparison, Texaco's remediation of the spills occurring prior to 1995 was completely successful, the Water Board having approved natural attenuation with once a year reporting.

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Health and Safety, testified that prior to the public's concern with MTBE, it was in many cases unnecessary to pump because NAPL would rarely travel a great distance from its source and the dissolved phase would rapidly biodegrade.⁸ He felt that that was the case at the MVT in the early 1990's; that at the time of the 1992 Order and for years thereafter, no one was concerned with MTBE; and that absent the Board's emerging concern with MTBE in the late 1990s, the failure to pump would have been in essence "no harm, no foul." Certainly permitting natural attenuation is a lot less costly than operating and maintaining a pumping system, and absent the unanticipated concern with MTBE, Kilkenny "may" have been correct. The point however is that the Board ordered SFPP to "prevent off-site migration of either free or dissolved product," and SFPP agreed to do so by running a pumping system. A company simply cannot claim that what it has agreed to do in response to a regulatory agency order is unnecessary and later claim that the resultant consequences were unanticipated; otherwise there would be little point in having regulatory agencies or orders. Put simply, "if you live by the sword, you die by the sword." Apparently the Board was of the same mind when in 1998 it cited P for failing to remove dissolved product and when in 2002 it issued its Time Schedule Order threatening all parties on the 1992 and 1999 Orders⁹ with a penalty of \$10 thousand per day for failure to comply.

In this case, the unrebutted opinion of Curtis Stanley is that if the three pumping wells required by SFPP's 1992 CAP had been operated as proposed, all of the MTBE in the Qualcom lot would have been successfully removed when the groundwater was pumped out and treated. Therefore, assuming arguendo that all of the MTBE in the core plume could be

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⁸ It should be noted that others involved in environmental remediation, including P's expert Dr. Hutchison, disagree, believing that it is a company's obligation to remove contaminants as rapidly and thoroughly as is feasible, and that by doing so, a company minimizes the risk that a product such as MTBE will sometime in the future be found to be environmentally unsafe.

⁹With respect to the 1999 Order, it is clear from a reading of the Order that Texaco was added because of its 1999 release at T-9, **not** because of any finding by the Board that Texaco was responsible for the core plume.

business in San Diego County.

In 1998 KM purchased SFPP. P has argued that subsequent to the purchase, P's experts reevaluated the data from the early 1990's using more "sophisticated" techniques, ¹⁰ and based on better science and additional data, concluded that virtually everything SFPP believed in 1992 and accepted for upwards of six years was wrong.

Ds argue that the data acquired since 1999 proves that the conclusions reached in 1992 were correct and that P is attempting to rewrite history for purposes of this lawsuit. Further that KM brought this lawsuit to avoid paying upwards of \$26 million to complete the remediation, to obtain a windfall by recouping the millions of dollars it and SFPP have already spent and to evict Texaco and Shell and thereby gain a near monopoly of the third party terminaling

There is considerable evidence that D is correct in its assessment of KM's motives, 11 and that what KM did was to stake out a position and then find experts who would support that position.

¹⁰ "Sophisticated" was a term used by the Arbitrator during the hearing to distinguish the methodologies used to analyze data in the early 1990's from the methodologies used to analyze data at the time of hearing. The term was not meant to imply that earlier methodologies were less reliable than later ones.

¹¹ For example, Scott Kilkenny testified that prior to KM's purchase of SFPP, he aware that the MTBE under Qualcom would have to be remediated, and with this knowledge, he advised the then president of KM that the future cost of remediation would be in the neighborhood of \$10 million. As evidenced by the testimony of P's expert, Dr. Ian Hutchinson, who estimated the future cost of remediation at \$26.16 million, Mr. Kilkenny dramatically underestimated the cost. Attempting to remedy that mistake was certainly motivation enough for bringing this lawsuit. Further, there is no question but that KM did not want Texaco and Shell competing with it in the thirty party terminaling business. James Kehlet unqualifiedly admitted this and testified that when Equilon went into the third party terminaling business, KM's customers wanted to negotiate a lower price — which is what happens when there is competition rather than monopoly pricing. He testified that that was why KM refused to consent to Texaco and Shell's assignment of their leases to Equilon and why KM brought an unlawful detainer suit seeking to evict Texaco and Shell for making an unlawful assignment. Moreover, notwithstanding the fact that that the Court found at the bifurcated hearing that KM had no right to not consent to the

1999-THROUGH THE ARBITRATION HEARING

Notwithstanding a correct understanding of what has in fact been SFPP's historical position and an understanding of KM's motives, it is still necessary to compare the scientific evidence presented by P and Ds. A fair way of evaluating the evidence is to compare the testimony of each side's witnesses in three areas, hydrogeology, pipeline testing, and fingerprinting, i.e. organic chemistry. In the Arbitrator's opinion, P's experts in these areas were not testifying as scientists; instead they were testifying as advocates.¹² Their testimony was in every way inferior to the testimony of Ds' experts. In short, Ds' experts were believable; P's were not.

In the area of hydrogeology, P presented the testimony of Dr. Hromadka and D presented the testimony of Dr. Huntley. In comparing their testimony, the Arbitrator was struck by Dr. Rouhani's testimony to the affect that a scientist is supposed to propose a hypothesis and then objectively test all of the relevant data. He or she is as interested in disproving the hypothesis as in proving it. Only when the data clearly supports the hypothesis can a scientist opine that the hypothesis is correct. In the case of Dr. Hromadka, and for that matter, Dr. Bruya and Dr. Caligiuri as well, the hypothesis was not a hypothesis at all but rather a forgone conclusion that the data was selected to support. For these witnesses, the conclusion determined the data rather than visa yersa.

The Arbitrator found Dr. Hromadka to be everything an "expert" should not be. He was 100% biased. He simply would not give a straight answer to any question when the answer might be damaging to P and he repeatedly insisted on arguing P's case despite the Arbitrator's admonitions not to do so. Further, he appeared at times incapable of drawing a

the Qualcom lot.

12 The Arbitrator of course understands that parties to a lawsuit are going to present experts who support their view. There is a difference, however, between experts who objectively analyze the facts and reach conclusions they believe in and experts who simply reach conclusions they feel will satisfy their employers. Having spent 20 years on the Bench, the Arbitrator believes he can tell the difference.

assignment, P has continued to seek eviction as a remedy for failing to remediate the MTBE under

perpendicular streamline.¹³ Further, depending on what suited his purpose, he had underground streamwater confined as though flowing through a straw or spreading out like lake. Further, when geological conditions supported his theories, they were clear as a roadmap whereas when they didn't, they were "complex." Further, he refused to acknowledge the meaning of written statements that were clear and unambiguous and disregarded data that would not support his theories. For example, when asked why he did not consider the hydropunch data taken from the area between the Manifold and the Texaco property, his response was, "I just took the data I wanted." Further, as each of his theories was disproved, he simply came up with another one, seemingly oblivious to the fact that his credibility was being destroyed.

P's 2001 Site Conceptual Model pointed to Texaco's pipelines and its operations area as the source of the MTBE under the Qualcom lot. Dr. Caligiuri pointed to the pipelines and Dr. Hromadka to the operations area. Notwithstanding nine years of history to the contrary and the Harding-Lawson report that P had commissioned but chose not to submit to the Board, Dr. Hromadka claimed there was a "gap" in the core plume just north of SFPP-7. However, in order to make his theory plausible, he had to explain how the free phase at R-01 had migrated from the Texaco property rather than from the Manifold.

At his deposition, Dr. Hromadka testified that the free phase recovered from R-01 had not come from the Manifold but had migrated from the operations area of the Texaco property. When asked how it was possible for free phase to migrate cross gradient and "upstream," he stated that the El Nino rains had permeated the unpaved east portion of the Texaco property

¹³ Interestingly, Dr. Huntley recalled with genuine disgust a case where in order to support his testimony, an opposing "expert" drew streamlines that wandered to and fro and at times appeared to make U-turns."

¹⁴ Dr. Hromadka's testimony that the Site Conceptual Model included the vapor recovery tank ("VRT") as a possible source of NAPL was simply untrue. At the time the Model was submitted to the Board, P was unaware that there had ever been any gasoline in the VRT.

but not the paved west portion of the property and this had caused the water level to be higher on the east than on the west or north. Dr. Huntley easily disproved this rather peculiar theory by comparing well water data obtained during periods when El Nino rains were the heaviest. The data clearly showed that well water levels at different locations remained the same relative to each other and that the water levels at R-O1 and SFPP 8 were at all times higher than the water levels in the operations area of the Texaco property.

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After his deposition was taken, Dr. Hromadka apparently realized that his theory based on the El Nino rains was not going to work. He thereupon focused on the VRT as the source of the free phase at R-01, thereby avoiding the need to explain how the free phase had flowed west, but still requiring an explanation of how the free phase had flowed north -- once again seemingly upgrade and upstream. On direct examination he testified that the readings at VW-1 showed that a pressure mound had formed which caused the water level in the area of the VRT to be higher than the water level at T-21 and R-01. However, under cross-examination, it became clear that Dr. Hromadka had relied on erroneous information in the electronic data base (apparently SFP-8 data had been mistakenly substituted for VW-1 data) and had not taken the trouble to learn that the erroneous data had been later corrected. Dr. Huntley testified that any hydrogeologist objectively viewing the erroneous data (rather than grasping for data that would help a party to a lawsuit) should have readily seen that the data was erroneous. Further, it is clear from the evidence received at the hearing that the VRT could **not** have been the source of a plume emanating from the Texaco property. The evidence that the tank had in fact leaked was circumstantial at best. Further, there was no evidence that the amount of product in the tank was at any time sufficient to cause a large plume. Further, the samples at taken at F60 and F61 ruled out a significant spill. Further, the tank had never been dug up and repaired, leading to the inference that any leak would be ongoing and would soak the surrounding soil with gasoline.¹⁵ Further, Christine White testified that she monitored the

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¹⁵ The same would be true if there had been a leak in the 8" vapor line. Further, the hydropunch data showed no NAPL in the area of the vapor line as did the 2001 Fugro direct push borings.

liquid levels in the tank and found that the tank was not losing liquid.¹⁶ Pointing to the VRT as a source was nothing short of "the last gasp of a desperate man."

Once Dr. Hromadka realized that he had again erred when he proposed that a pressure mound had altered the water levels, he theorized that product from the VRT had somehow migrated through the soil to R-01. However, he had to abandon that theory when it was pointed out that he had previously testified that there was a 10 to 1 ratio between horizontal and vertical migration of free phase through soil, and using that ratio, the free phase could not have come close to traveling the distance necessary to reach R-01. Further, there was no evidence of a continuous clay layer above the water table along which free phase could travel to R-01.

Finally, Dr. Hromadka, without any supporting evidence, testified that perhaps the soil conditions between the west area of the Texaco property and R-01 were "unusual." Interestingly, Mr. Cockrum, who has a master's degree in hydrogeology, admitted during his testimony that he could not come up with an explanation of how free phase from the Texaco property could wind up at R-01.

Dr. Hromadka also maintained that groundwater from the Manifold could travel no more than 400 feet per year, and therefore, there was insufficient time for any release at the Manifold to have migrated 1200 feet to T-18 in three years. Once again, Dr. Huntley put Dr. Hromadka's conclusion to the test. He determined the rate of flow of the groundwater,

The Arbitrator found Ms. White to be a credible witness and an accurate historian.
 The "three years" is based on the idea that MTBE was introduced into California in the late 1980's

and therefore any spill of MTBE enriched gasoline at the Manifold that was observed at R-01 in 1991 or 1992 would have had to have reached R-01 in three years -- the three years being at best a rough estimate. Interestingly in 1992 no one suggested that NAPL was traveling at the "sluggish" pace proposed by Dr. Hromadka. In fact, SFPP's 1992 CAP suggested groundwater flow velocities far greater than the velocities suggested by Dr. Hromadka.

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and using a derived formula, calculated the rate of flow of NAPL as being conservatively 18 between 730 and 2500 feet per year, a rate more than sufficient to carry NAPL to the Texaco property within the requisite time period. The Arbitrator is satisfied that Dr. Huntley's calculation was correct.

Dr. Hromadka also testified that the "low to high" readings on product thickness, MTBE and soil gas readings showed that NAPL under the Qualcom lot had not come from the Manifold. Dr. Huntley, who in general appeared to have a far better understanding of hydrogeology and gasoline migration than did Dr. Hromadka, 19 testified that working geologists understand that the thickness of NAPL in wells proved nothing about the direction of flow or the source of the NAPL. Further, one would expect to find higher concentrations of MTBE under the Oualcom lot because MTBE-rich gasoline is trapped where permeabilities are lower, rather than where they are higher further up the Mission Valley. Further, one would expect soil gas readings to be higher under the Qualcom lot than in the area between the Manifold and the Texaco property because soil gases would be trapped beneath the asphalt surface of the lot. Finally, Dr. Hromadka, who admittedly had not attempted to analyze the source of dissolved phase MTBE at the Manifold as of the time of his deposition, testified that the MTBE at the Manifold had migrated from the Shell property. Suffice it to say, the evidence showed that Shell MTBE did not jump over the Mobil property and P's tanks. Further. Mr. Williams testified persuasively that it was highly unlikely that any MTBE from Shell could have migrated beyond the Mobil property.

¹⁸ Dr. Huntley eliminated data that would have resulted in the NAPL moving more rapidly because he felt that that data was unreliable. This was in marked contrast to the way Dr. Hromadka and Dr. Bruya used data, i.e. they eliminated data simply because the data would not support their conclusions.

¹⁹ For example, in suggesting that groundwater moved southwest in the area of the gap and thus would flow west of the Texaco parking lot, Dr. Hromadka drew streamlines that, consciously or unconsciously, ignored the fact that in the areas he pointed to, the soil to the southwest was relatively impermeable compared with the soil to the southeast.

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With respect to pipeline leaks, P presented the testimony of Dr. Caligiuri while D presented the testimony of Robert Gorham from the Fire Marshall's Office and Brian Payne.

Overall, the Arbitrator found Dr. Caligiuri's testimony highly suspect. He appeared to unreasonably question any finding that proved that Powerine's lines had been leaking and any finding that proved that Texaco's lines had not been leaking, once again showing P's willingness to rewrite history.

As previously stated, Dr. Caligiuri drafted the portion of KM's 2001 Site Conceptual Model that pointed the finger of suspicion at Texaco's allegedly leaking pipelines. He suggested that Texaco's lines under Friar's road were a likely culprit, lines which if leaking could release large quantities of product and account for a plume running from the Texaco property to the Qualcom lot. What is striking is that Dr. Caligiuri persisted in pointing to these pipelines notwithstanding the fact that the lines has passed hydrostatic testing in 1992, 1994, 1995, 1997 and 2000, with the 1992 and 2000 tests being 8 hour tests. He also claimed that a 2000 Tracer Test was inconclusive because it was a "modified" Tracer Test. (That claim was of course put to rest when the lines passed a standard Tracer Test in 2002.). It is clear that in trying to convince the Board that Texaco's lines were leaking, he applied far more rigorous standards to Texaco's lines than he did to KM's lines. The Board apparently agreed when it recently ordered KM to test its lines under the Manifold.

In an attempt to cast doubt on the conclusion that Texaco's lines were tight because they had repeatedly passed testing by the State Fire Marshall's Office, Dr. Caligiuri suggested that the Fire Marshall used a "one gallon per hour" test and this allowed for the possibility that large quantities of product could have over time leaked into the soil. He also suggested that the 1992 test of Texaco's 2" gas return line indicated a possible leak (although he admitted on cross-examination that that the 1994 test did not appear to indicate a possible leak).

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Robert Gorham, who supervises the pipeline safety division of the State Fire Marshall's Office, and who was clearly a credible, unbiased witness, 20 testified that his office does not apply the one gallon per hour standard in determining whether or not a line leaks. Rather, his office reviews the pressure tests (the same way Dr. Caligiuri does) and determines if the tests indicate a possible leak. Contrary to Dr. Caligiuri's suggestion, he would not find that a line had passed a pressure test because it was leaking less than one gallon per hour. If a line leaks (and a pressure test will pick up a pin hole sized leak), then it doesn't pass.

Mr. Gorham further testified (contrary to Dr. Caligiuri) that the 1992 test of Texaco's 2" gas return line did not indicate a possible leak. The pressure level was constant throughout the test with the temperature changes being insignificant.

The Arbitrator heard considerable testimony about whether or not the Powerine line was leaking at the Manifold prior to 1993. In 1993, SFPP argued that a leaking Powerine line at the Manifold was the source of some forty percent of the NAPL that wound up under the Oualcom lot and that the two holes found in the line when it was excavated had been present for some time. At the arbitration hearing, KM argued that Powerine could not have been the source of the NAPL because the Powerine gasoline did not contain MTBE whereas the free phase under the parking lot did and that the two holes found in the line had been blown out during hydrostatic pressure testing.

P's argument that Powerine could not have been the source because Powerine gasoline did not contain MTBE is not persuasive. There obviously was MTBE in the Powerine tanks at one time because SFPP's 1996 4th Ouarterly Report stated that MTBE was found in LF-06, which is just south of the Powerine tanks, and that MTBE was not found in wells upgrade of the tanks. Further, Mr. Holland testified that he didn't begin testing for MTBE until 1992 and

²⁰Mr. Gorham testified that Texaco was ordered to test its lines under Friar's Road in 1992, not because its lines had failed a previous test but because that was when its lines first came under the jurisdiction of the Fire Marshall's Office.

When Dr. Caligiuri testified that the two holes in the Powerine line had been blown out during pressure testing, he did not appear well-informed of SFPP's historical position. For example, he did not appear aware that on 4/14/93 Mr. Ferrara had written a letter to Powerine refuting all of Powerine's arguments that the line had **not** leaked; that Mr. Ferrara had sent Powerine the Seybold report to show that the holes had not been blown out during pressure testing; that SFPP had hired its own expert who refuted Powerine's expert's conclusion about the significance of the quantity of free product in the soil in the area of the leak and that SFPP had felt that Powerine's inventory records were totally unreliable.²²

Dr. Caligiuri testified that the pressure readings on the 6/3/92 and 6/9/92 Powerine line tests showed that the operator ran down the pressure on the first test because of a valve leak and that the two holes in the line were blown out during the second test. He testified that the initial pressure dip on the second test was due to a "hiccup" by the pump.²³

The Arbitrator found Brian Payne to be a credible witness and finds his explanations of the pressure readings more likely than those offered by Dr. Caligiuri. Further, he appears to have had more "hands on" experience than Dr. Caligiuri. He testified that if the 6/3/92 test had showed a valve leak, the head pressure would have kept the reading from going down to zero

²¹ SFPP pointed to this fact when in 1993 it claimed that Mr. Holland's inventory records were inaccurate.

²² It is rather ironic that in an effort to try to avoid the Board ordering it to test its lines beneath the Manifold, KM offered to submit its own inventory records. The Board did not accept the offer.

²³ All of the pressure readings were available in 1993, i.e., this was not new data, and in 1993 SFPP presumably regarded the readings as proof that there was a leak.

or just above zero as it did when the pump was turned off. Further, he did not believe that the initial pressure dip on the 6/9/92 test was due to a "hiccup," a hiccup that did not occur at any other time during either test. He further testified that if there had been a hiccup, the reading should not have returned to zero. It was his belief that the line was leaking at the time of the 6/3 test and that it was not a valve leak as Powerine thought possible. When the operator began the second test, he or she immediately realized that the line was still leaking, pumped the pressure up to over 300 and twice "walked the line" in an attempt to locate the leak.²⁴

With respect to organic chemistry or "fingerprinting," P presented the testimony of Dr. Bruya while Ds presented the testimony of Dr. Uhler. Dr. Bruya began his testimony by discounting the conclusions he had reached in 1992, hardly a beginning that would inspire confidence. Further, he selectively chose data (obtained at different times and analyzed by different labs, using different methods and different scales) that would support his conclusions. For example, when he had three reports, two of which had results similar to each other but different from the third, he would sometimes accept the majority results and sometimes the minority result -- depending on which would support his theory. Further, from the moment Dr. Bruya was hired by KM, he was fully aware of the relationship between the data and the wells -- and therefore what data would support KM's theories. Dr. Uhler, at the time he did his analysis, was not aware of where the data came from.²⁶

²⁴ P made the argument that Powerine would not have run product through the line between the first

and second tests if there had been a line leak. Powerine's personnel could of course have thought

However, notwithstanding that description, Simon HydroSearch and SFPP concluded that the product

there was a valve leak and believed they had repaired it, they could have thought there was a leak into a tank rather than into the environment, they could simply have had to move product to satisfy their customers and hoped that any leak was insignificant and could later be repaired, etc.

25 Dr. Bruya repeatedly stressed that the 90-10 percentages of gasoline and diesel were "approximate."

found at LF-04, T-18 and R-09 and R-10 was the same.

²⁶ P has questioned Ds lack of data taken from wells within the canyon area (because there are relatively few wells within the canyon) and questioned Ds' reliance on purportedly "less reliable" data, e.g. LIF data, hydropunch data, etc. The irony of P's position is that well data is lacking because SFPP and KM have simply failed to drill the wells. (The same is true for wells within the Manifold area.) Texaco and Shell by comparison have drilled wells all over their properties.

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Dr. Bruya's central theme was that all of the product on the entire Texaco property and at R-09 and R-10 was the same and differed from the product found at the Manifold. Dr. Uhler disagreed, concluding that the NAPL at LF-04, T-04, T-18 and R-09 and R-10 was identical and differed from the NAPL found at T-02 and T-03.²⁷ Both experts reached some of their conclusions by analyzing organic lead, MTBE and diesel content.

With respect to lead, Dr. Bruya testified on direct examination that tetraethyl lead (TEL) was found only at the Texaco facility and at R-09 and R-10, but that it was not found at the Manifold. On cross examination his testimony was shown to be incorrect when Ds pointed out that a 7/11/01 Zimax report stated that TEL had been found at LF-04. Interestingly Zimax was hired by P and provided other data to Dr. Bruya which Dr. Bruya used in forming opinions favorable to P. Yet Dr. Bruya claimed to have no knowledge of the report showing TEL at LF-04.

With respect to diesel, Dr. Bruya was questioned about the fact that diesel found at T-02 and T-03 was different from diesel found at T-04. Dr. Bruya admitted the difference but said there was that a septic tank on the Texaco property that might have degraded the diesel, a septic tank whose presence and precise location he was able to determine from a single reference on a single diagram. However Dr. Bruya had no knowledge of how much material had flowed from the toilet on the Texaco property into the septic tank or how the contents of a septic tank could degrade diesel.²⁸ Furthermore, the ground water in T-02 and T-03 had been measured and shown to contain dissolved oxygen, which would indicate that any septic tank effluent would have been minimal and unlikely to have had any affect on the diesel. Dr.

²⁷ Both Dr. Bruva and Dr. Uhler's analysis's were of course far more complex than the examples to which the Arbitrator will refer. For example, Dr. Uhler reached his conclusions based on bulk properties analysis, gasoline diagnostics, diesel diagnostics and gas chromatographic features. Further each of the foregoing involved multiple comparisons of NAPL from different wells. The Arbitrator has chosen a few examples that illustrate the two expert's differing conclusions.

²⁸ Dr. Bruya suggested that there might have been mineral oil in the tank. There is no basis for that suggestion.

Uhler testified that there was simply no basis for supposing that a septic tank could totally degrade diesel. He further testified that the ratio of diesel to gasoline was much higher at T-02 and T-03 than at T-04 and the other wells in the core plume -- which is consistent with Ds' theory that the Texaco releases in the 1980's were predominantly diesel.

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Dr. Bruya contended that there was no evidence of MTBE in LF-04 NAPL, basing his finding on the testing done by Mr. Lenk -- which was of uncertain sensitivity at the levels tested. He then concluded that since there was MTBE in the NAPL under the Texaco lot and under the Qualcom lot that the NAPL at the Manifold was different from Texaco's NAPL. Dr. Bruya's assumptions that the Lenk testing was accurate and that the testing conclusively proved that there was no source of NAPL containing MTBE at the Manifold were not well founded. There was no evidence of how the sample that Mr. Lenk tested was obtained, and as previously indicated, there clearly was NAPL containing MTBE at the Manifold, e.g. MTBE from Powerine. Moreover, it came to light on cross examination that Dr. Bruya was for some reason unaware of a January 1993 report from a Phoenix laboratory showing MTBE in a groundwater sample taken from R-0l, and as previously indicated, the contamination at R-01, in the Arbitrator's opinion, could only have come from the Manifold. Dr. Bruya then suggested that the MTBE at R-01 might have come from a leak in the water draw line on the Shell property and gravitated as dissolved phase through the Manifold and down to the Qualcom lot. However his partitioning theory was based on incorrect assumptions about how the NAPL and groundwater samples would have been collected. It is clear to the Arbitrator that Dr. Bruya was grasping at straws in an attempt to explain the finding at R-01 -- and in the process point the finger at Shell.

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Further, Dr. Uhler offered considerable evidence which, in the Arbitrator's opinion, conclusively established that the LNAPL at T-02, T-03 and T-11 and T-12 was different from the LNAPL within the core plume, e.g. the weathering analysis, the gas chromatographic readings, the PIANO analysis, etc.

ADDITIONAL EVIDENCE PRODUCED BY D

In addition to the evidence already referred to, Ds produced considerable additional evidence supporting their view of the case. For example, the Hydrocarbon Distribution Map showed the core plume crossing the Texaco property between T-03 and T-04. This is of course consistent with the fingerprint evidence produced by Ds. Further, high soil gas readings were recorded in 1992 in the area of the SFPP tanks. This is consistent with SFPP's tanks being a source of the NAPL in the core plume.

Further, all of the hydropunch data supported Ds' contention that there was not a gap in the core plume.

Further, the Fugro direct soil borings taken in 2001 and analyzed by Delmar Analytical showed no gap in the core plume and no release within the canyon.

Further, Sam Williams testified to different analysis's he had done. The Arbitrator found him to be straight forward and credible. He testified that pre-1992 Shell NAPL did not migrate beyond the Shell property and post 1992 Shell NAPL (from the alleged break in the water draw line) did not progress beyond S-01; that the concentrations in the Shell monitoring wells are relatively static; that NAPL from the T-09 spill had not migrated beyond the Texaco property and that the MTBE found in T-11 resulted from the T-09 spill.

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²⁹ The Arbitrator found Mr. Williams far more knowledgeable about LIF readings and mapping than P's expert, Dr. Shaller. Interestingly, when Dr. Shaller was pinned down, his mapping wasn't all that different than Mr. Williams'.

Mr. Williams also testified that the LIF readings were consistent with the soil gas readings, i.e. they showed the NAPL following the same path.²⁹ Dirk Cockrum testified that these findings were a foregone conclusion, or put another way, that Mr. Williams was going to use the Fugro data to support the conclusion that his employers' wanted. The Arbitrator does not agree. Mr. Cockrum's would do well to view P's expert witnesses with the same degree of skepticism.

Further, Dr. Shahrokh Rouhani's statistical analysis confirmed the fact that Dr. Hromadka had "cherry picked" his data and that using all the available data, there was no basis for Dr. Hromadka's Site Conceptual Model. Further, using all the available data, Dr. Rouhani provided corroboration that there was no gap in the core plume; that the path of the core plume was as previously described and that Texaco was not the source of contamination in the core plume.

Finally, Ds' counsel complained that because of P's constantly changing theories, he was forced to "shoot at a moving target." The downside of this is that one has to be quick with his gun (which Ds' counsel was). The upside is that when you've destroyed the target, there's nothing left to shoot at. In other words, at the conclusion of the hearing, P simply had no theory that would support its view of the case.

ANSWERS TO QUESTIONS

Based on the foregoing, the Arbitrator answers the four questions that he posed above and finds as follows:

Answer to Question #1. There is a continuous plume running from the Manifold through the 1 canyon and the west side of the Texaco property and then under the Qualcom parking lot. 2 3 There has never been a "gap." 4 6

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Answer to Question #2. Shell product, either as NAPL, free or dissolved, has not migrated from the Shell property to the Manifold and has **not** contributed to the core plume.

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Answer to Question #3. Texaco has **not** contributed to the core plume.

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Answer to Question #4. The Texaco plume has not merged with the core plume.

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DISCUSSION OF THE APPLICABLE LAW

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Burden of proof. It is not necessary to discuss the parties' respective burdens of proof because the Arbitrator would make the same findings and rulings irrespective of which party had the burden of proof, i.e., assuming arguendo that Ds have the burden of proof on any issue, Ds have satisfied that burden.

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Indemnity. P seeks indemnity against Shell and Texaco based on indemnity clauses in their leases and in Texaco's Indenture and on principles of equitable indemnity. The Arbitrator finds that whether the Leases and Indemnity clause are construed as specific or general indemnity provisions they are inapplicable to this case and principles of equity do not warrant indemnity.

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The Arbitrator has found that Shell free product has not migrated beyond the Shell property and that Shell has accepted responsibility for remediating whatever remains.³⁰ The Arbitrator has also found that the core plume and the Texaco plume are completely separate from each

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Mr. Williams testified that a small amount of MTBE might have migrated as far as the Mobil property. Shell will be responsible for cleaning that up, infra.

other and have not merged.³¹ The two plumes are separated geographically, the dividing line being between T-03 and T-04. They are also separated chronologically. As evidence by the 1995 natural attenuation letter, any contamination caused by Texaco on its property prior to that time was remediated by Texaco. The core plume apparently resulted from spills at the Manifold in the late 1980's with MTBE having continued to move further and further into the Qualcom lot. The Texaco MTBE plume in the Qualcom lot resulted from the T-09 spill in 1999. Texaco has prevented free product from that spill from migrating beyond its property has accepted responsibility for any further remediation of that free product and for remediation of the MTBE within the Texaco plume, infra.

Under the above circumstances, it would defy logic and fairness to find Texaco responsible for cleaning up all of the contamination. Further, to the extent that the "sole cause" language in the indemnity clauses is a basis for indemnification, it is clear that SFPP was the sole cause of the core plume and Texaco was the sole cause of the Texaco plume. They are unrelated.

Further, the principal cases relied on by P are inapplicable to these facts. Ralph M. Parsons Company v. Combustion Equipment Assoc., Inc. (1985) 172 Cal.App.3d 211 and John E. Branagh & Sons v. Witcosky (1966) 242 Cal.App.2d 835 are personal injury cases involving concurrent causation. They involve a single act at a single moment in time causing damages

³¹ Assuming arguendo that the specific indemnity clauses were applicable to an environmental case

such as this, the Arbitrator would not order indemnification if a de minimis amount of MTBE had found its way into the core plume at some location in the Qualcom lot. As the evidence has clearly

shown, there have always been and there currently are two separate plumes, the core plume and the Texaco MTBE plume emanating from the T-09 release. Further, P's renewed pumping efforts may

have caused a small amount of MTBE to migrate westward towards R-09 and R-10 and will eventually cause the MTBE to migrate westward and be captured by P's groundwater remediation system, infra. The fact that P's **own** pumping efforts may cause the MTBE plumes to eventually merge does not cause the specific indemnity provisions to come into play. Further, if SFPP had effectively carried out the Board's 1992 Order, the only plume in the Qualcom lot in 1999 would have been the Texaco plume -- for which Texaco has accepted responsibility.

at a single location. That is dramatically different than different acts at different times causing damages at different locations.

AWARD

Based on the foregoing, the Arbitrator rules in favor of Ds on all causes of action and declares the rights and obligation of the parties to be as follows:

- 1. Shell and Texaco have not breached any provision in their leases, and in the case of Texaco, in its Indenture, and need not indemnify P and need not vacate their properties.
- 2. Shell and Texaco have to date, and at their own expense, fully complied with Health Department and Board Orders related to cleanup of contamination for which Shell and Texaco have accepted responsibility.
- 3. The most efficient way of remediating the contamination at the MVT and under the Qualcom lot is to have one party, in this case KM, be responsible for all the remediation efforts and for compliance with all Health Department and Board Orders related to the remediation. Therefore, the Arbitrator orders KM to assume both the responsibility and the risk related to all future remediation and cleanup work on or under the Shell and Texaco properties and on or under all properties at the MVT subject to KM's control and on or under the entire Qualcom lot and on or under any locations to which the existing contamination may spread. If after the date of this Award, Shell and/or Texaco should experience a new spill or a new release on either or both of their properties, then Shell and/or Texaco shall be responsible for remediation of that spill or release.
- 4. KM is ordered to do the cleanup work as above set forth and to indemnify and hold harmless Texaco and Shell for any liability arising out of its failure to do the cleanup work

and any failure to comply with past or future orders of the Health Department and Board related to the cleanup work.

5. With respect to the Shell property, the future cleanup work appears minimal. It will be necessary to continue to monitor the existing wells, and as a result of the break in the water draw line, to do further remediation work at S-01 and to cleanup any MTBE that might possibly have migrated beyond the Texaco property. Dr. Hutchison's estimate³² of \$300 thousand appears to be too high and there are questions of who was responsible for maintenance of the water draw line and who caused the alleged break in the line. The Arbitrator orders that Shell pay P \$150 thousand for assuming all of Shell's remediation costs.

6. With respect to the Texaco property, Dr. Hutchison estimated the cost of remediating the T-09 spill on the property to be \$500 thousand and estimated the cost of monitoring the existing wells to be \$100 thousand. Dr. Hutchison's estimate again appears to be too high. Assuming that the total remediation cost is \$26.16 million, the cost assigned to remediating the T-09 spill is disproportionately high. The Arbitrator orders that Texaco pay P \$525 thousand for assuming Texaco's costs of remediating the T-09 spill on Texaco's property and monitoring all of Texaco's wells.

With respect to Texaco's MTBE plume in the Qualcom lot, Mr. Williams testified that he did not think that another well in the parking lot would be necessary and that KM's current pumping system would gradually draw MTBE from the Texaco plume into KM's groundwater remediation system. He testified that remediating the MTBE from the Texaco plume would increase the cost of remediating the MTBE in the core plume by 2.2%, and on

³² With respect to Dr. Hutchinson and Mr. Williams' estimates, the Arbitrator did not hear any testimony rebutting those estimates, however, the Arbitrator did hear other testimony relating to remediation costs.

that basis, he estimated Texaco's share of the total cost of remediating the MTBE in the

Qualcom lot to be \$6 to \$8 thousand per year for two to five years. Given that Mr. Williams's

estimate is a "best case scenario," the Arbitrator orders Texaco to pay P \$40 thousand for

assuming Texaco's cost of remediating the Texaco plume.

Texaco is therefore ordered to pay P a total of \$565 thousand for assuming all of Texaco's

6 remediation costs.

7. The Arbitrator must allocate remediation costs incurred by the parties subsequent to the Cost Sharing Agreement.³³ In view of the Arbitrator's findings, KM is required to reimburse Texaco for all expenditures by Texaco that are attributable to the cleanup of the core plume.³⁴ At the conclusion of the hearing, the Arbitrator advised the parties that based on what he had received from them he would not be able to determine what costs were attributable to cleanup and therefore reimbursable and what costs were attributable to litigation and therefore not reimbursable. Further, there are some costs that may well fall into both categories. The parties suggested that the Arbitrator make a finding as to the parties' obligation to reimburse the other and that they would then attempt to agree on an amount. The Arbitrator has made such a finding and hereby orders the parties to meet and confer and attempt to agree on the amount that is to be reimbursed and to then factor in the costs that Texaco and Shell have been ordered to pay to P for assuming their cleanup costs. If they cannot agree or can only agree in part, the Arbitrator will hold a further hearing on such terms as the Arbitrator shall order.³⁵

Dated: March 21, 2003

Robert T. Altman, Arbitrator

At the outset of the hearing the parties advised the Arbitrator that he was **not** expected to order reimbursement of attorneys' fees or litigation costs.

³⁴ The Arbitrator is assuming that KM did not incur any costs in connection with the Texaco plume.
³⁵ For the benefit of the parties, the Arbitrator has attached a copy of Dr. Jackson's report to the Arbitrator.

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On the Source of Gasoline Contamination in Mission Valley

Opinion by Richard E. Jackson, P.E., Ph.D.
Technical Expert to Judge Robert Altman
SFPP vs. Equilon
March 20, 2003

Summary

I conclude that the Plaintiffs argument - that the gasoline contamination beneath the Qualcomm stadium parking lot (QSP) is caused by spills at the Texaco/Equilon facility - is unproven and incorrect. The Defense has made a more compelling argument based upon a better conceptual site model to explain this contamination. While it is of course the burden of proof of the Plaintiff to establish the origin of the gasoline contamination and thus an explanation of this conclusion is strictly unnecessary, the circumstances surrounding this contamination are so unusual that an explanation is warranted.

The Plaintiff's Conceptual Site Model

The principle of Occam's razor - that the fewest possible assumptions are to be made in explaining a phenomenon - argues for the Plaintiffs claim that the gasoline contamination beneath QSP is derived from the nearby Texaco facility rather than the distant manifold of SFPP. Not only did Mr. Beckett, a respected contaminant hydrogeologist, conclude in 1999 that "[t]he most logical source for gasoline impacts in QSP is the closest MTBE-gasoline source and the one that has a correspondingly strong groundwater signature" but also the distance of travel of the gasoline that the Defense

¹ Beckett, G.D., June 3, 1999. Letter report to Don Hoirup of the San Diego Region Water Quality Control Board, "Overview of Fuel Plume conditions at the Equilon-Texaco Terminal, 9966 San Diego Mission Road, and the Mission Valley Terminal, San Diego. California", Aqui-Ver, Inc., Exhibit 286. In his summary argument, Plaintiff's counsel presented this statement by Beckett in his concluding slide. It sould (continue)

proposes is of extraordinary length, i.e., a distance from the SFPP manifold to QSP of 1500 feet. Furthermore, the Plaintiffs presented a plausible source of the gasoline in the form of the vapor recovery tank on the Texaco facility. Finally, the Plaintiffs presented a conceptual site model ("model") that indicated there were in fact two gasoline LNAPL zones separated by a gap: the first located around and down-gradient² from the SFPP manifold, the second stretching from well R-01 down-gradient to QSP. The presence of the gap between the two gasoline zones was consistent with Beckett's first principle of fuel spills, namely, that "[i]t is the exception, rather than the rule, to find product significant distances from the release point"³.

Therefore, the Plaintiff's model assumed not only a short distance of gasoline migration from the vapor recovery tank to the R-09 and R- 10 area beneath the QSP (i.e., < 500 ft), but also assumed that the fuel hydrocarbons in the vapor recovery tank were the cause of the contamination in wells R-01, T-18 and beneath the QSP. This latter point was strongly urged by the Plaintiffs' counsel using chemical analyses by Dr. Bruja conducted in 1991 for Texaco, which showed strong similarity between the LNAPL in the vapor recovery tank and in well T-18.⁴ However, this model proved impossible for the Plaintiffs to sustain for at least four reasons. Firstly, their forensic evidence proved inadequate, secondly, there was no evidence of infiltration of fuel into the soil near the tank, thirdly, the Plaintiffs' concept of the aquifer system beneath Mission Valley⁵ did not account for the measured hydraulic properties and sedimentary architecture, and, fourthly, the Plaintiffs misinterpreted what the measured LNAPL thicknesses within the various wells actually meant.

(continued)

be noted that later in the same report from which this quotation is taken, Beckett states that in his opinion the Texaco "site appears to have no regional impacts and is not a probable contributor to the QSP gasoline plume." Beckett was referring to leaks in the "10-inch MVT feed lines coming in from Miramar and leaving to the Harbor after passing through the K-M MVT manifold."

² The gradient referred to is that of the water table. i.e., the hydraulic gradient along which the gasoline will migrate as free-phase LNAPL, light non-aqueous phase liquid, or "free product". LNAPL trapped by soil capillary forces is referred to as residual LNAPL.

³ Beckett, June 1999, p. 2.

⁴ Friedman & Bruya, Inc., December 26, 1991, letter report, Exhibit 137(?).

⁵ Integral Consultants, "site conceptual model" (exhibit 352), submitted to RWQCB, November 7", 2001.

Furthermore, all other potential Texaco sources seemed even less likely because of the strong evidence presented over the course of the trial of southerly ground-water flow from the Texaco loading rack that would not cause southwest-ward migration of LNAPL towards R-09 and R-10 in the QSP. To understand the weakness of the Plaintiff's model, it is helpful to understand the evidence associated with these four points.

[a] Forensic Analysis

Dr. Bruya argued two main points:

- The LNAPL samples analyzed by his company in the early 1990s and in 1999 all point to the conclusion that the Texaco facility was the source. of the gasoline beneath the QSP.
- 2. The source of the MTBE in ground water appears to be contact water, i.e., water associated with that withdrawn from gasoline storage tanks.

The Defense showed that the Dr. Bruya had developed his conclusions without knowing that organic lead was present in not only the fuel samples collected at Texaco and at the QSP, but also in a sample collected in 1999 from LF-04. This revealed similarity of LF-04 LNAPL with LNAPL samples collected down-gradient at R-09, R-10 and T- 18 pointed to a single source from the upper part of the Mission Valley Terminal (MVT). This conclusion was supported during cross-examination by evidence provided by Dr. Uhler of Battelle that was based upon toluene concentrations within the LNAPL, the phytane versus pristane ratios, and the deuterium and carbon-13 isotope compositions that all indicated a long gasoline plume that developed near LF-04 and a quite separate NAPL plume migrating south-wards from the Texaco loading rack. Dr. Uhler later showed during his own testimony that the diesel component of the gasoline from the "core" plume (i.e., that moving from the manifold area to the QSP) had very different

characteristics⁶ than that of the Texaco plume sampled at T-2 and T-3 on the southern boundary of the Texaco facility.

Concerning the source of the MTBE in the ground waters throughout Mission Valley and beyond the QSP, Dr. Bruya expressed the opinion that partitioning theory led to the conclusion that it was contact-water, perhaps from the Shell facility at the north end of the Terminal. However, the data that Dr. Bruya presented suggested that the MTBE could readily be explained by dissolution from the adjacent LNAPL trapped near the manifold rather than being contact-water from the Shell facility. Dr. Bruya was clearly unaware of the considerable errors introduced into his calculations by the small size of the NAPL sample compared with the very large volume of aquifer from which the ground-water sample was collected. This is due to the long well screens that are typically installed at the MVT, only a fraction of which are in contact with aquifer materials contaminated with LNAPL ("the smear zone"). In addition, the recovery of NAPL in contaminated cohesionless soils is a difficult task and also, if field preservation of the samples is not conducted, further losses will likely occur by volatilization of the MTBE prior to laboratory analysis. Thus, no real importance should be attached to the difference between the range of MTBE concentrations estimated from soil samples to be present in ground water at T-04 (2,700 to 21,000 µg/L) with the "MTBE level nearest the time of NAPL sampling" (21,000). The fact that Dr. Bruya would see such a difference as meaningful is a warning to those experts who offer opinions beyond their competence.

[b] The Vapor Recovery Tank

Given the southerly ground-water flow pattern beneath the Texaco facility, the concept of the vapor recovery tank as source for the QSP gasoline plume had the merit of proximity and of being directly up-gradient of the QSP LNAPL zone. Dr. Hromadka apparently seized upon the potential importance of the vapor recovery tank after it was recently suggested to him by Plaintiffs' counsel when all other sources on the Texaco

⁶ The plots of the dibenzothiophenes and phenanthranes (D2/P2 vs. D3/P3) and of the C-18/phytane and C-I7/pristane on their own merits strongly indicated that two LNAPL plumes were present on site.

⁷ Rixey, William G. and Sushrut Joshi, 2000, Dissolution of MTBE from a Residually Trapped Gasoline Source, American Petroleum Institute, No. 13.

facility had failed to provide an unambiguous rationale by which Texaco would be responsible the QSP gasoline plume.⁸ As I understand it, Dr. Hromadka's theory was based upon fuel leakage from the vapor recovery tank that would migrate westwards towards R-01, T-21 and T-18 due to the perched water-table he discovered at VW-1 and in heterogeneous soils with a horizontal to vertical anisotropy of 5:1 or 10:1.

This theory became untenable when the Defense showed that the water-level data for VW-1 was erroneous and that no extensive perched water table existed. Furthermore, it became quite clear later in the trial that no leak from the vapor recovery tank had been detected by the CPT-LIF data points (F60 and F61) that had been collected in the close vicinity of the tank itself and well T-20. In hindsight, the weaknesses of this theory should have been apparent to Dr. Hromadka and Mr. Cockrum.

[c] The Aquifer System

The Plaintiffs' view of the Mission Valley aquifer system was set forth in their site conceptual model¹⁰ and in testimony by Dr. Hromadka and Mr. Cockrum. This model exhibited two singular features:

- 1. The ground-water flow pattern between the SFPP manifold and the QSP was of such constant geometry that the stream-tubes estimated from these maps could give definitive indications of particular up-gradient sources for particular downgradient contaminant "hits" at monitoring wells.
- 2. A gap exists between the two LNAPL zones at the SFPP manifold and the QSP.

Firstly, the stream-tubes connecting presumed sources with down-gradient wells, the sketching of which consumed much time during the trial, were described by the piezometric surface contour maps based upon water levels at only twelve wells along the

⁸ The witness admitted under cross examination that the Plaintiffs' site conceptual model (exhibit 352) omitted any mention of the vapor recovery tank as a source of the QSP gasoline plume. Dr. Hromadka did mention this possibility in his deposition, p. 115, taken December 23rd, 2002.

⁹ I pointed out following the cross examination of Dr. Huntley, that there was evidence of perching of ground water in the photographs of the excavation of Texaco's 4,000 gallon tank (Exhibit 385), however Dr. Huntley responded, correctly in my view, that there was no evidence of an extensive perched water table across the Texaco facility that would provide a transport mechanism to move fuel to well R-01.

¹⁰ Integral Consultants report (Exhibit 352).

1500-foot length of the Valley. These stream-tubes merely provide gross approximations of the actual paths taken by contaminant molecules that are subject to both advective displacement and dispersion caused by textural variability in the aguifer sediments. For example, the fine-grained sediments around SFPP-7 are not reflected in the piezometric surfaces used by Dr. Hromadka but such sediments would cause ground-water contamination and LNAPL to follow the path of least resistance through by-passing.¹¹ Furthermore, among the simplifications used by all parties was the treating of the Valley walls as no-flow boundaries when in fact they must be seepage faces resulting from higher hydraulic heads in the highland areas adjacent to the Valley that would mean arcuate contours leading to the deflection of the stream-tubes into the axis of the Valley. Finally, spills of LNAPL may spread laterally in heterogeneous soils, as Dr. Hromadka pointed out, therefore the penetration of the LNAPL into the water table might occur a considerable lateral distance from the leak location. To summarize, it is not possible, with piezometric contours of the scale used, to relate up-gradient sources to downgradient wells in such a poorly-defined aguifer system in which preferential flow paths undoubtedly exist. 12

Secondly, the concept of a gap between LNAPL zones was advanced by Dr. Hromadka and Mr. Cockrum. It appears to have depended upon a simplistic analysis of the CPT textural data in Dr. Shaller's geologic cross section along the northeast-southwest axis of Mission Valley that showed the presence of fine-grained sediments between SFPP-7 and R-02. The site conceptual model of Integral Consultants¹³ stated that "the valley-fill deposits are composed of randomly-distributed coarse-grained and

¹¹ This point is readily seen in the LIF cross section for SFPP-7/R-02 drawn by Dr. Huntley (Fig 4-5b) in which the LNAPL has moved to the eastern side of the Valley where continuous sands exist and has thus avoided being trapped by the fine sediments along the western side of the Valley.

Two recent papers demonstrate the detailed hydrogeological mapping necessary to define "preferential flowpaths" controlling contamination in heterogeneous alluvium: [a] Amerson, I. and R.L. Johnson, 2003, Natural gradient tracer test to evaluate natural attenuation of MTBE under anaerobic conditions. Ground Water Monitoring & Remediation 23, no. 1, pp. 54-61. [b] Zheng, C. and S.M. Gorelick, 2003. Analysis of solute transport in flow fields influenced by preferential flowpaths at the decimeter scale. Ground Water 41, no. 2, pp. 142-155.

¹³ Integral Consultants, Exhibit 352, p. 9.

fine-grained deposits" and that "[t]he cross sections do not indicate lateral connectedness." This perceived lack of connectedness between high-permeability sections of the aquifer system was shown to be demonstrably false in the LIF cross sections that were displayed by Dr. Huntley and Mr. Williams for the Defense. Furthermore, it has become accepted that in aquifer systems where the sand fraction is >20%, such as is the case in the Mission Valley aquifer, interconnectedness is the rule not the exception. The Plaintiffs' claim of lack of interconnectedness allowed them to dismiss the high hydraulic conductivity measurements from the M-4, RW-5 and T-3 pumping tests (K~150 ft/day) and thereby produce much lower rates of dissolved-contaminant migration, e.g., MTBE travel rates of < 400 ft/yr, when rates of 1000 to 2000 ft/yr are justifiable.

[d] LNAPL thicknesses

Dr. Hromadka testified that one reason that showed that the Texaco facility was the source of contamination in well R-0l was that R-01 always had much lower free-product thicknesses R-09 and R-10 in the QSP. Mr. Kilkenny also said that he did not believe that soil texture would control the LNAPL thickness in wells. By contrast, Dr. Huntley opined that differences in thicknesses between wells are due to the soil texture adjacent to the well screen and to the position and history of the local water table. In stating these facts, Dr. Huntley was simply stating well established theory that should have been understood by all experts concerned in this trial.¹⁵

In conclusion, the Plaintiffs' conceptual site model was undermined by weaknesses that should have been evident to an independent expert, however neither Mr. Cochrum, Dr. Hromadka, Dr. Bruya nor Mr. Kilkenny fitted this description.

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¹⁴ Fogg, G.E., 1986. Groundwater flow and sand body interconnectedness in a thick, multiple-aquifer system. Water Resources Research 22, no. 5, pp. 679-694.

¹⁵ See [a] Farr. A.M.; R.J.Houghtalen; and D.B.McWhorter, 1990. Volume estimation of light nonaqueous phase liquids in porous media. Ground Water 28, no. 1, pp. 48-56. [b] Lenard, R.J. and J.C.Parker, 1990. Estimation of Free hydrocarbon volume from fluid levels in monitoring wells. Ground Water 28, no. 1, pp. 57-67.

The Defense's Conceptual Site Model

The Defense's model relies, as a well-engineered structure should, on careful analysis of data and material properties. The Defense argued that the source of the QSP gasoline plume was the SFPP manifold that had leaked during the period of 1987 to 1991, a period that was determined by the presence of MTBE in the QSP gasoline plume. The 1992 Corrective Action Plan filed with the Regional Water Quality Control Board on behalf of SFPP, Shell, Mobil and Powerine by Simon Hydro-Search¹⁶ identified an LNAPL plume from soil gas surveying and confirmatory ground-water quality sampling that followed a "buried stream channel" from the SFPP manifold to wells R-09 and R-10 in the QSP. This description of the LNAPL pathway was supported by Harding Lawson Associates in their 1999 report for Kinder Morgan and SFPP.¹⁷ Dr. Uhler showed that the LNAPL in the main plume from the SFPP manifold to the QSP was compositionally different from that spilled at Texaco. CPT-LIF and Hydropunch data confirmed the continuity of LNAPL and dissolved MTBE in ground water, respectively, from the manifold to the QSP.

Two issues concerning the reliability of the basis of the Defense's model merit careful consideration. The first is the reliability of the evidence for the alleged 1987-91 leaks. The fact that there was a leak of the Powerine pipeline at the SFPP manifold during 1987-91 is not questioned. But could this leak alone explain the gasoline in the QSP or are other leaks during the same time period also necessary at the SFPP manifold or elsewhere in the north Tank Farm to explain the observations and measured values? The second issue concerns the reliability of Dr. Huntley's computation of a LNAPL travel rate from the SFPP manifold of 1200 ft in less than 3 years. Is this rate of travel consistent with what we know of gasoline migration in granular aquifer materials?

¹⁶ Corrective Action Plan, Mission Valley Terminal, 9950 San Diego Mission Road, San Diego, California. September 1, 1992. Simon Hydro-Search Inc., Huntington Beach, California., p. 7. Exhibit 1066.

¹⁷ Groundwater Characterization Report, Mission Valley Terminal, San Diego, California. January 14, 1999. Harding Lawson Associates, Irvine, California, p. 5. Exhibit 1270. This statement by HLA echoed their earlier statements in the Draft Corrective Action Plan for Groundwater Remedation at the MVT, Exhibit 1438, p. 6.

[a] Was Powerine the Source of the Gasoline Leak?

Defense's Conceptual Site Model¹⁸ identified leakage from the Powerine pipeline as "the primary source of the LNAPL gasoline plume", but noted that the April 1991 soil gas survey suggested that tanks within the SFPP tank farm were also leaking.¹⁹ The MTBE concentration in the gasoline sampled at R-09 and R-10 in 1992 and analyzed by Mr. Lenk was (approximately) 2000 ppm (i.e., 0.2% by volume).²⁰ A Raoult's Law calculation indicates that ground water in contact with such an LNAPL would have an initial MTBE concentration of approximately 84,000 μg/L (ppb).²¹ When such contaminated ground water flowed down gradient, dispersion would occur and concentrations would decrease. A ground-water sample at R-01 collected in January 1993 contained 15,800 μg MTBE/L (i.e., ppb), a value consistent with a leak at the manifold of gasoline with 2000 ppm MTBE.²² Therefore, is such contamination attributable to leaks from the Powerine pipeline that Mr. Bennett claimed would be detected by his continual checking?

That Powerine gasoline contained significant quantities of MTBE on some occasions is not in question. Ground water that collected immediately down-gradient of the Powerine tanks displayed elevated levels of MTBE over the years.²³ Despite Mr. Bennett's claims to the contrary, it appears that his material balance calculations could not alert him to continuing losses that I suspect were attributable to subsurface perforations of his pipeline that lacked cathodic protection. Thus, as Mr. Bennett

¹⁸ Exhibit 1209, p. 7.

¹⁹ See Figure 11, TVH concentration in soil gas, central area. Site Characterization Report, by Simon Hydro-Search, 8/21/92, Exhibit 1301.

²⁰ Exhibit 193.

²¹ This assumes an aqueous solubility of 42,000 mg/L, the value used by Johnson et al., 2000. MTBE: to what extent will past releases contaminate community water supply wells? Environmental Science & Technology 34(9):210A-217A.

²² Exhibit 194.

Defense presented historic analytical results showing MTBE concentrations as high as 2600 ppb in LF-06 and values of 0 (P-01) and 1 (R-07) ppb up-gradient of the Powerine tanks. The dates of the samples are unknown, except for data presented in the 1999 Aqui-Ver report (Exhibit 286, Figure 6) in which LF-06 contains 680 ppb in mid-1998.

admitted, it is conceivable that Powerine was losing a quantity of gasoline equal to the "line-fill volume" of 90 barrels or 3600 gallons each week when SFPP transmitted gasoline to the Powerine tanks.²⁴ Over the course of one year, this would amount to 180,000 gallons. As time wore on in the 1980s and MTBE concentrations were increased by refiners in Los Angeles County, it is most doubtful that Mr. Bennett would be able to detect increases in oxygenate concentrations from <0.05% ("clear") to around 2%²⁵ by his test method as he described it to the Court. In April 2001, a ground-water sample (FCL-7) collected at the SFPP manifold with a direct-push tool contained 200,000 ppb MTBE and another 240,000 ppb t-butyl alcohol, the oxidation product of MTBE. Such a concentration would be consistent with a gasoline containing 2% MTBE from which three quarters of the MTBE had dissolved out leaving it with 0.5% MTBE by volume.

Because modern gasolines contain 11 to 15% MTBE, their effective solubilities computed by Raoult's Law are much higher, e.g., 4,700,000 ppb for reformulated gasoline. However, none of the LNAPL samples collected in July 2001 at the Mission Valley Terminal and analyzed by Zymax contained MTBE above 0.1%. This finding, when considered together with the significant difference between the MTBE concentrations in the FCL-7 sample and these effective solubilities, lends support to the conclusion that the Powerine pipeline was the primary source of gasoline contamination in Mission Valley.

[b] How Rapidly Could Powerine Gasoline Migrate to the QSP?

The computation of the velocity of NAPL migration through granular aquifer materials, such as exist beneath the Mission Valley, is an unexplored topic in the field of

²⁴ This is because his meters were on his loading rack and not at the Powerine manifold.

According to Fogg et al., Impacts of MTBE on California Groundwater, Exhibit 1369: "MTBE was used in California's lead phase out program in 1979 at volumes up to 2 percent as a lead substitute and octane booster. The US EPA approved use of MTBE in 1981 up to 10 percent and in 1988 approved its use up to 15 percent by volume."

²⁶ See Table l, Johnson et al., ibid.

²⁷ The practical quantitation limit was reported as 1000 mg/kg or 0.1% by weight. Zymax lab nrs 24392-3 through 24392-9. Samples were analyzed from W-3(T-3?), W-4(T-4?), T-18, R-09, and R-10. Gasoline with 0.1% by wt MTBE yields an MTBE concentration in contact water of 42,000 ppb, approximately.

contaminant hydrogeology. Dr. Huntley attempted this for the Defense without the aid of a multi-phase simulator such as is used by petroleum engineers who deal with the flow of hydrocarbons and water on a daily basis. Thus, the validity of the simplifying assumptions required to follow the approach he took to the estimation of NAPL velocity are worthy of inquiry.

Dr. Huntley began by computing a ground-water velocity range for the Mission Valley aquifer of 730 to 2500 ft/yr based upon hydraulic testing of wells that yielded hydraulic conductivities of the order of 50 to 175 ft/day, i.e., fine sands grading up to coarse sands. He then computed the relative velocity of LNAPL to ground water through experimentally determined curves (S_L vs. P_c) relating the LNAPL saturation of Mission Valley aquifer sediments to capillary pressure to obtain an effective LNAPL conductivity analogous to the hydraulic conductivity. Assuming that the LNAPL gradient down the Mission Valley aquifer was similar to the slope of the water table, Dr. Huntley concluded that when NAPL occupied just 10% of the pore space in the aquifer (i.e., a NAPL saturation = 0.1), the ratio of NAPL velocity to ground-water velocity "is 0.5 to greater than 1." The higher NAPL velocities are due to the lower viscosity of gasoline compared with water. Consequently, Dr. Huntley concluded that "it is not unreasonable for NAPL to move 1200 ft from [the] manifold area to T-18 in [a] period of less than 3 years".

Having assumed leakage from the Powerine pipeline beginning in 1987, his conclusion was consistent with the discovery of dissolved benzene in LF-04 ground water in late 1987 and LNAPL in LF-04 and T-18 in December 1991. But Dr. Huntley's approach applies to a uniform thickness of LNAPL migrating in a steady-state flow field with uniform multi-phase flow properties. As he himself pointed out, his approach requires a unit slope in the relative permeability curve such that all flow of LNAPL occurs within the bounds of this region of the curve. Such strong assumptions are unlikely to be fully met in the field, therefore is Dr. Huntley's approach a good first

²⁸ Friedman & Bruya Inc. (amended report of August 1992) described these two LNAPL samples as "virtually the same".

approximation of the actual processes involved or an unreal exercise based upon too many simplifications?

The only practical way to resolve this question is by multi-phase simulation using a petroleum-engineering computer code that can simulate the flow of both water and LNAPL in granular aquifer sediments. This was accomplished by Dr. Dwarakanath and Mr. Ewing of INTERA working under my direction and using the UTCHEM simulator developed at the University of Texas at Austin.²⁹ This two-dimensional INTERA model of the Mission Valley aquifer is itself simplified by assuming that the granular sediments comprising the aquifer are homogeneous with a permeability of 70 darcies (K=200 ft/day), a horizontal to vertical anisotropy of 10:1, and a porosity of 0.28. The length of the aquifer model is 1400 ft and is divided into 70 uniform grid blocks. The model height is 38 ft and composed of 30 grid blocks and the model width is one foot. A water table gradient of 1% was established prior to "spilling" gasoline into the model at a rate of 34 gallons per day with a head of one half foot of LNAPL. The LNAPL has a density = 0.78 g/mL and a viscosity = 0.61 cp, i.e., the same as used by Dr. Huntley. Figure 1 shows the migration of the LNAPL during early time (30 days after leakage began), while Figure 2 shows the LNAPL plume having traveled 1200 ft - the distance from the manifold to T-18 - in 150 days. The cascade-like effect of the LNAPL plume shown in the two figures is due to the relatively small number of grid blocks used to simulate the event.

The INTERA model treats the aquifer as a single, high-permeability unit as if the LNAPL were following a preferential flow path in gravel, which is demonstrably present in the Mission Valley aquifer. It also explicitly considers the penetration of gravels that are uncontaminated by LNAPL although likely contaminated with dissolved hydrocarbons. The process of penetration will slow LNAPL should it try to enter low-permeability materials, hence the trapping of the gasoline in the fluvial sediments beneath the QSP, however this process has not been simulated in the INTERA model which only investigates the LNAPL migration from the SFPP manifold to well T-18. The conclusion derived from the INTERA model is that a continuous gasoline spill of 34 gallons per day

²⁹ Delshad, M., G.A.Pope and K.Sephrnoori, 1996. A compositional simulator for modeling surfactant enhanced aquifer remediation, l: Formulation. Journal of Contaminant Hydrology 23, pp. 303-327.

over a period of less than one year can reasonably be expected to migrate from the SFPP manifold to T-18 through preferential flow paths in coarse aquifer materials such as have been documented in the Mission Valley Aquifer.

The applied LNAPL head of one-half foot is small considering the potential height of the pin-hole leaks above the water table. Even one-half foot causes some LNAPL migration up-gradient as is shown in Figure 1, in which the LNAPL plume has formed and begun its migration. Higher heads will cause further up-gradient LNAPL migration, thus explaining the high soil-vapor concentrations measured north of the manifold in 1991.³⁰ Higher heads will also cause more rapid down-gradient migration of the LNAPL. But higher heads from the weekly gasoline transmission (2-4 hours long) to Powerine's tanks would be followed by lower heads after transmission losses cease. Therefore choosing a low LNAPL head value is appropriately conservative.

Thus, Dr. Huntley's conclusion of gasoline migration from the SFPP manifold to T-18 within a period of three years is verified as a first approximation of gasoline migration in granular aquifer materials to the extent that the INTERA model itself represents the reality of the preferential flow paths within the Mission Valley aquifer and of the Powerine pipeline leaks. From reviewing the information provided for the trial, I am confident that these constraints are satisfied and that the INTERA model correctly predicts LNAPL migration within the Mission Valley aquifer arising from leaks involving as little as twenty thousand gallons of gasoline,³¹ although I suspect that the total volume leaked between 1987 and 1992 was much larger. Therefore, the Defendant's Conceptual Site Model - Exhibit 1209 - is accepted as being a reliable portrayal of the contamination events within the Mission Valley aquifer since 1987.

³⁰ See Figure 11, TVH concentration in soil gas, central area. Site Characterization Report, by Simon Hydro-Search, 8/21/92, Exhibit 1301.

The model width is only one foot, which represents the width of the preferential flow path that is the subject of the simulation. It is probable that much lateral spreading occurs around the leak point and therefore in reality a larger spill would be required. Thus, the volume of leaked LNAPL that is necessary to propagate the plume from the manifold to T-I8 and beyond is greater than 34 gallons x 150 days or 5,100 gallons simulated. A leaked volume of four times this amount or 20,000 gallons is reasonable because the high perm preferential flow path will offer the least resistance to penetration by the LNAPL and it will permit LNAPL migration down-gradient.

 $G: LA data 1 \times 5275 \times 6600 - Equiva \times 00110 \times Arbitration \setminus JACKSON. doc$

C:\Documents and Settings\mgreenberg\My Documents\SFPP v. Equilon\Final Documents\JACKSON.doc

Testimony by Shell Oil Company Relative to Tentative Addendum No. 5 To Cleanup and Abatement Order No. 92-01 Presented at the March 9, 2005 California Regional Water Quality Control Board (San Diego Region) Regional Board Meeting in San Diego, CA

Exhibit B



Secretary for

Environmental
Protection

California Regional Water Quality Control Board

San Diego Region

Internet Address: http://www.swrcb.ca.gov/rwqcb9 9174 Sky Park Court, Suite 100, San Diego, California 92123-4340 Phone (858) 467-2952 • FAX (858) 571-6972



July 24, 2003

Mr. Curt Stanley
Hydrogeology Advisor
Shell Global Solutions
3333 Highway 6 South
Houston, Texas 77082-3101

In reply refer to: TSMC:40-0054.05:chani

Dear Mr. Stanley:

SUBJECT: SITE CONCEPTUAL MODEL FOR MISSION VALLEY TERMINAL CLEANUP

Thank you for your email dated June 4, 2003, requesting the Regional Water Quality Control Board, San Diego Region (Regional Board) acknowledge the Shell/Texaco site conceptual model for the Mission Valley Terminal as representative of the facts of the cleanup case. The Shell/Texaco model and the model submitted by Kinder-Morgan Energy Partners differ significantly regarding the release scenario and plume configuration. The Shell/Texaco site conceptual model is consistent with the data regarding these two issues. The data show a continuous plume of free product on the water table and/or residual free product in soil extending from the manifold area to the northern portion of the Qualcomm Stadium parking lot. This continuous plume is delineated by the soil gas survey, and the cone penetrometer-laser induced fluorescence survey. Monitoring well data also are consistent with this interpretation. The source of free product may never be known with certainty, but appears to have been in the area of the manifold and likely was a gasoline line owned by Powerine. Holes were discovered in this line following hydrostatic testing in 1992.

The Shell/Texaco lines under Friars Road do not appear to be a source of the free product, as these lines tested tight in a recent Tracer Tight test, and in previous line tests. Further, soil and ater samples from the area where the lines emerge from under Friars Road do not indicate that free product is leaking from these lines.

A relatively small and distinct free product plume emanates from the Shell/Texaco portion of the terminal. This plume can be differentiated from the main free product plume emanating from the manifold area based on the relative proportions of diesel and lead in the two plumes.

The heading portion of this letter includes a Regional Board code number noted after "In reply refer to:" In order to assist us in the processing of your correspondence please include this code

California Environmental Protection Agency

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at http://www.swrcb.ca.gov.

number in the heading or subject line portion of all correspondence and reports to the Regional Board pertaining to this matter.

If you have any questions please contact me at (858) 627-3926 or by email at chanj@rb9.swrcb.ca.gov.

Sincerely,

Julie Chan Senior Engineering Geologist

JAC:jac:jac

cc: Mr. Gene Freed

Equiva Services LLC (Shell & Texaco)

6451 Rosedale Hwy.

Bakersfield, Ca 93308

Mr. Mark Greenberg

Baker & Hostetler LLP

333 S. Grand Ave., Suite 1800

Los Angeles, Ca 90071-1523

Mr. Dirk Cockrum

Kinder-Morgan Energy Partners, LP O/P SFPP, LP

370 Van Gordon Street

Lakewood, Co 80228-8304

Testimony by Shell Oil Company Relative to Tentative Addendum No. 5 To Cleanup and Abatement Order No. 92-01 Presented at the March 9, 2005 California Regional Water Quality Control Board (San Diego Region) Regional Board Meeting in San Diego, CA

Exhibit C

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1	LOS ANGELES, CALIFORNIA; FRIDAY, JULY 11, 2003
2	8:45 A.M.
3	DEPARTMENT NO. 57 HON. RALPH W. DAU, JUDGE
4	CASE NUMBER: BS 083707
5	CASE NAME: SFPP VS. TEXACO
6	APPEARANCES: (AS HERETOFORE NOTED.)
7	REPORTER: OLGA NAVARRO, CSR #2805
8	
9	* * * *
10	
11	THE COURT: NUMBER 14, SFPP.
12	MR. GREENBERG: MARK GREENBERG APPEARING ON
13	BEHALF OF THE DEFENDANT TEXACO OIL COMPANY.
14	MR. JOHNSON: MARK JOHNSON FOR PLAINTIFF
15	SFPP.
16	THE COURT: THIS IS HERE ON THE MOTION TO
17	CONFIRM THE ARBITRATION AWARD.
18	MR. JOHNSON: YES, YOUR HONOR. I HAVE HAD A
19	CHANCE TO REVIEW YOUR TENTATIVE AND IT'S CLEAR THAT
20	THE COURT HAS GIVEN THOROUGH CONSIDERATION ON THE
21	PLEADINGS HERE AND I THINK TO THE CASE IN GREAT
22	DETAIL.
23	I JUST WANTED TO MAKE A COUPLE OF POINTS
24	ACTUALLY, SO I WILL BE VERY BRIEF. THE INTERA,
25	I-N-T-E-R-A, MODEL CLEARLY ADDRESSES THE MIGRATION
26	OF CONTAMINATION AT ISSUE HERE. THE INTERA MODEL,
27	AS DR. JACKSON SAW IN HIS VIEW, COULD DETERMINE
28	WHETHER OR NOT THE CONTAMINATION COULD HAVE

1 MIGRATED THROUGH THE TESTIMONY OF DR. HUNTLEY. 2 THE COURT: THROUGH THE WHAT? 3 MR. JOHNSON: THROUGH THE TESTIMONY OF DR. HUNTLEY. DR. HUNTLEY'S TESTIMONY CONCERNED 4 5 WHETHER OR NOT CONTAMINATION COULD HAVE MIGRATED 6 FROM THE MANIFOLD AREA TO THE PARKING LOT IN THE TIME REQUIRED. IT'S CLEAR THAT THEIR MODEL WAS 7 8 MEANT TO ADDRESS WHETHER OR NOT THAT COULD HAPPEN. 9 IN TERMS OF THE ARBITRATOR'S RELIANCE ON 10 THAT MODEL --11 THE COURT: BUT HE ACCEPTED THE TESTIMONY OF 12 THE WITNESS. 13 MR. JOHNSON: I AM SORRY? THE COURT: HE ACCEPTED THE TESTIMONY OF THE 14 15 WITNESS. 16 MR. JOHNSON: YOU MEAN THE ARBITRATOR OR TECHNICAL INVESTIGATOR? 17 THE COURT: THE ARBITRATOR. 18 19 MR. JOHNSON: WELL, THAT GOES TO MY NEXT 20 POINT, YOUR HONOR. THE AWARD SAYS THAT THE 21 ARBITRATOR WAS VIRTUALLY IN CONSTANT DISCUSSION 22 WITH THE TECHNICAL ADVISOR AND THE TECHNICAL 23 ADVISOR IN HIS REPORT IS TO DO THIS INTERA MODEL. GIVEN THE IMPORTANCE THAT THE TECHNICAL 24 25 ADVISOR PLACED ON THE MODEL AND GIVEN THE AMOUNT 26 THAT WAS DONE, IT'S A CERTAINTY THAT THEY HAD TO 27 DISCUSS THE MODEL WITH JUDGE ALTMAN AND CLEARLY 28 JUDGE ALTMAN WAS USING THE TESTIMONY OF THE

1 TECHNICAL ADVISOR. 2 THE COURT: BUT HE BOUGHT THE TESTIMONY OF 3 THE WITNESS, YOU SAY. 4 MR. JOHNSON: HE BOUGHT THE TESTIMONY OF THE WITNESS, BUT MY POINT IS THAT IF HE BOUGHT THE 5 6 TESTIMONY OF THE WITNESS, WE DON'T KNOW IF HE 7 BOUGHT THE TESTIMONY OF THE WITNESS WITH RELIANCE 8 ON THE FACT THAT FROM JACKSON HAD SAID THAT HE HAD DONE THIS MODEL AND CONFIRMED IT. 9 10 MR. GREENBERG: IT IS VERY CLEAR IN THIS CASE THAT HE RELIED UPON DR. HUNTLEY'S TESTIMONY AND NOT 11 12 DR. HROMADKA BECAUSE IF YOU READ THAT AWARD, HE 13 DIDN'T BELIEVE ANYTHING THAT DR. HROMADKA SAID. THE COURT: HE SURE DIDN'T. 14 15 MR. GREENBERG: IT IS CLEAR WHO HE BELIEVED AND WHO HE THOUGHT WAS LYING TO HIM. 16 17 THE COURT: RIGHT. 18 MR. GREENBERG: I WOULD BE REMISS IF I DIDN'T 19 TELL YOU THAT. THE COURT: "IT IS A MOST ASTONISHING 20 21 STATEMENT OF UNRELIABILITY OF EXPERT TESTIMONY I 22 THINK I HAVE EVER SEEN." 23 MR. GREENBERG: YES, IT IS, AND IT'S VERY 24 CLEAR THAT THEY LOST EVERY SINGLE FACTUAL AND LEGAL ARGUMENT IN THIS CASE, AND THAT THIS ONE, THIS 25 26 ISSUE OF NAPL MOBILITY AND SPEED --27 THE COURT: N-A-P-L.

MR. GREENBERG: -- WAS NOT A SIGNIFICANT

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FACT, AND IN FACT, THE REAL SIGNIFICANCE HERE IS
THE LASER INDUCED FLUORESCENT STUDY THAT WAS
UNCONTROVERTED, FOOTNOTE 29, JUDGE ALTMAN SAID EVEN
THEIR OWN EXPERT THAT THEY CALLED IN REBUTTAL, FROM
THE MANIFOLD ALL THE WAY DOWN. HOW FAST IT MOVED,
IT REALLY DOESN'T MATTER, IT'S THERE.

THE OTHER POINT IS AS NOTED IN THE
AWARD, THEIR OWN TESTIMONY, IS IT MOVED 400 FEET A
YEAR OVER THREE YEARS AND IT NEEDS TO MOVE 1,200
FEET. 400 TIMES THREE IS 1,200. THE POINT THAT I
NEED TO MAKE, YOUR HONOR, I WOULD LIKE THIS COURT
TO ADOPT ITS FACTUAL AND EVIDENTIARY FINDINGS IN
THE TENTATIVE, BUT I EXPECT THIS WILL BE APPEALED
AND I WOULD LIKE THE COURT TO ALSO MAKE A FINDING
ON THE ISSUE OF THE -- WHAT IS THE DUELING
DECLARATIONS AND WHETHER OR NOT THIS WORK WAS
EXPRESSLY APPROVED.

WE HAVE A SUBMISSION, AS WE NOTED IN OUR BRIEF, WE HAVE A LETTER FROM JUDGE ALTMAN THAT BOTH PARTIES HAVE RECEIVED AND I WOULD LIKE THE COURT TO MAKE THE FINDINGS THAT IT HAS MADE AND THEN GO TO THIS ISSUE OF WHETHER OR NOT --

THE COURT: THESE LOOK LIKE DIAMETRICALLY OPPOSED DECLARATIONS.

MR. GREENBERG: WE WILL TAKE TESTIMONY IF YOU WANT TO DO THAT.

THE COURT: I AM NOT SURE I WILL MAKE A FINDING, BUT I AM NOT GOING TO DO IT ON THE BASIS

1 OF THE DECLARATIONS BECAUSE THEY CONTRADICT EACH 2 OTHER. 3 MR. GREENBERG: OF JUDGE ALTMAN. 4 THE COURT: NO, THE DECLARATIONS THAT HAVE 5 BEEN FILED. 6 MR. GREENBERG: I HAVE A DECLARATION OF JUDGE 7 ALTMAN, IF THE COURT IS WILLING TO STAND BY THAT. 8 THE COURT: I DON'T RECALL THAT. 9 MR. GREENBERG: YOUR HONOR, COUNSEL OBJECTED 10 TO ANY SUBMISSION OF THE LETTER BY JUDGE ALTMAN TO BOTH OF US OR THE DECLARATION UNTIL THIS COURT 11 12 RULED. THEY HAVE A 703.5 OBJECTION, I BELIEVE, 13 BECAUSE THEY HAVE ALLEGED MISCONDUCT AND THEY HAVE 14 ACTUALLY ALLEGED A VIOLATION OF STANDARD 12, THEY 15 HAVE ALLEGED JUDGE ALTMAN VIOLATED STANDARD 12 OF 16 THE JUDICIAL COUNCIL'S ETHICAL STANDARDS FOR 17 ARBITRATORS. 18 THE COURT: WHERE IS THAT? 19 MR. GREENBERG: PAGE 10, FOOTNOTE 4, OF THEIR 20 ORIGINAL FILING. 21 THE COURT: I AM SORRY, GIVE ME THE NAME OF 22 THE DOCUMENT. I AM --23 MR. GREENBERG: YOUR HONOR, MAY I JUST 24 PROVIDE YOU MY COPY. 25 THE COURT: JUST TELL ME WHAT IT IS. 26 MR. GREENBERG: IT'S PLAINTIFFS RESPONSE TO 27 PETITION TO CONFIRM ARBITRATION AWARD AND REQUEST 28 TO VACATE AWARD.

1 THE COURT: YOU SAY FOOTNOTE 5? 2 MR. GREENBERG: FOOTNOTE 4, YOUR HONOR. 3 THE COURT: OH. 4 MR. GREENBERG: WHAT 703.5 SAYS IS THAT: "THE ARBITRATOR MAY NOT PROVIDE TESTIMONY UNLESS 5 THE EXCEPTION IS IF THE ALLEGED MISCONDUCT COULD 6 7 GIVE RISE TO AN INVESTIGATION BY THE JUDICIAL COMMISSION," AND IN THIS CASE, BY THE STATE BAR OR 8 9 COMMISSION ON JUDICIAL PERFORMANCE. THE COURT: WHERE ARE YOU FINDING THIS? 10 11 MR. GREENBERG: THIS IS 703.5 OF THE EVIDENCE 12 CODE. THAT IS WHAT THEY HAVE QUOTED TO ME IN LETTERS AND COMMUNICATIONS SAYING I CAN'T SUBMIT 13 14 ANYTHING FROM JUDGE ALTMAN. THE COURT: IS THAT IN THIS 703.5; IS THAT 15 16 CITED HERE? MR. GREENBERG: 703.5 IS CITED IN THEIR BRIEF 17 THAT WAS FILED YESTERDAY. 18 19 THE COURT: WELL, THAT IS TOO LATE, I DIDN'T 20 READ THAT. MR. GREENBERG: OKAY. WELL, I CAME TO THE 21 COURT YESTERDAY, YOUR HONOR, AND I ASKED YOUR 22 CLERK, I SAID, "LOOK I HAVE GOT THIS PROBLEM, JUDGE 23 ALTMAN TOLD US BOTH TO SUBMIT THIS LETTER TO THE 24 COURT, BUT I KNOW THERE IS AN OBJECTION." 25 SHE SAID, "WELL, BRING IT WITH YOU 26 27 TOMORROW." THAT IS WHAT I HAVE DONE. I DIDN'T 28 JUST WANT TO FILE IT AND HAVE IT BEFORE THE COURT

WHEN I KNOW THERE IS AN OBJECTION.

MR. JOHNSON: LET ME ADDRESS ONE ISSUE.

THE COURT: THIS IS ASTONISHING ON YOUR PART,
ABSOLUTELY ASTONISHING. JUDGE ALTMAN DIDN'T
BELIEVE ANY OF YOUR WITNESSES AND YOU ARE NOW
ATTACKING HIS HONESTY?

MR. JOHNSON: THAT IS NOT WHAT WE MEANT TO

THE COURT: IT IS JUST ASTONISHING. HE IS A VERY RESPECTED JUDGE.

MR. JOHNSON: IF I CAN EXPLAIN. WHAT WE DID
BY REFERENCING THE JUDICIAL ADMISSION THERE IS
SIMPLY TO SAY THAT THAT ECHOES THE LANGUAGE OF
703.5. WE ARE NOT ACCUSING JUDGE ALTMAN OF BEING
DISHONEST. I KNOW THAT IT MAY SOUND LIKE THAT, BUT
WE ARE NOT. WE SIMPLY FEEL THAT THE INTERA MODEL,
GIVEN THAT THE LEVEL OF VALUE THAT DR. JACKSON
PLACED ON THAT, IT GOES TO THE CENTRAL ISSUE OF THE
CASE.

OUR WITNESSES. BUT IT IS ALSO THE TRUTH THAT THE
TECHNICAL ADVISOR SAID THERE ARE CERTAIN ISSUES
ABOUT THE DEFENDANTS' MODEL THAT HE FEELS NEEDS
CAREFUL CONSIDERATION. ONE OF THOSE IS WHETHER
HUNTLEY'S TESTIMONY MADE SENSE. AND THE INTERA
MODEL, ACCORDING TO JACKSON, WAS THE ONLY WAY TO DO
THAT, AND THAT'S ALL WE ARE TRYING TO SAY IS,
"LOOK, IF YOU ARE GOING TO DO THE MODEL, WE

1 CERTAINLY CAN HAVE AN OPPORTUNITY TO CHALLENGE THAT 2 MODEL."

> WE WERE NOT ADVISED OF IT UNTIL AFTER THE ARBITRATION AWARD. THAT IS ALL WE ARE SAYING HERE. WE ARE NOT ACCUSING JUDGE ALTMAN OF BEING DISHONEST. ALL WE ARE SAYING IS IF THE INTERA MODEL IS HAPPENING, WE WANT AN OPPORTUNITY TO RESPOND TO IT.

MR. GREENBERG: HE WROTE A LETTER TO JUDGE ALTMAN AFTER HIS LETTER TO US.

THE COURT: IS THIS IN THE RECORD?

MR. GREENBERG: I DIDN'T WANT TO DO IT UNTIL THE COURT RULED UNDER 703.5 THAT THIS IS WITHIN THE EXCEPTION TO 703.5 BECAUSE THEY HAVE ALLEGED MISCONDUCT THAT COULD GIVE RISE TO AN INVESTIGATION BY THE JUDICIAL COMMISSION WHETHER HIS TESTIMONY, HIS DECLARATION AND HIS LETTER IS ADMISSIBLE. HIS DECLARATION CLEARLY IS ADMISSIBLE.

HE HAS WRITTEN A LETTER TO BOTH OF US AND ASKED AT THE END OF THE LETTER THAT WE SUBMIT IT TO THIS COURT. AND THE LETTER ADDRESSES THE ADMISSIBILITY OF HIS DECLARATION, WHY HE THINKS BECAUSE HIS INTEGRITY HAS BEEN ATTACKED AND THIS COULD GIVE RISE TO AN INVESTIGATION, WHY HIS DECLARATION IS ADMISSIBLE. THAT IS WHY WE HAVE BEEN ASKED TO SUBMIT THAT.

THE COURT: WAIT.

THE COURT: HOW COULD JUDGE ALTMAN BE THE

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1	SUBJECT OF INVESTIGATION BY THE CJP, HE IS RETIRED.
2	MR. GREENBERG: HE STILL COULD BE
3	INVESTIGATED BY THE STATE BAR. THEY HAVE ALLEGED
4	MISCONDUCT BY HIM AS AN ARBITRATOR.
5	THE COURT: HE IS NOT A MEMBER OF THE STATE
6	BAR.
7	MR. GREENBERG: HE IS NOT A MEMBER OF THE
8	STATE BAR?
9	THE COURT: NO, HE IS A RETIRED JUDGE.
10	MR. GREENBERG: I DON'T KNOW THAT HE IS NOT A
11	MEMBER OF THE STATE BAR.
12	THE COURT: WELL, AND THEY DON'T INVESTIGATE.
13	EVERY TIME I SEND THEM ANYTHING, THEY SAY "WE DON'T
1 4	HAVE THE RESOURCES TO DEAL WITH THIS."
15	MR. GREENBERG: IT HAS TO BE SIMPLY THAT IT
16	COULD GIVE RISE AND I THINK IT COULD GIVE RISE TO
17	AN INVESTIGATION.
18	THE COURT: NOW, IF HE ISN'T A MEMBER OF
19	EITHER ONE, IT'S CLEARLY NOT SUBJECT TO THE CJP.
20	JUST A MINUTE.
21	
22	(PAUSE.)
23	
24	THE COURT: HE IS ON INACTIVE STATUS IN THE
25	STATE BAR.
26	MR. GREENBERG: I BELIEVE HIS VIEW UNDER THE
27	CJP, HE COULD BE INVESTIGATED.
28	THE COURT: I AM NOT AWARE OF THAT. YOU ARE

10 GOING TO GET YOURSELF MEMBERSHIP OF THE HALL OF 1 2 INFLAME MAKING A CLAIM LIKE THIS, MR. JOHNSON. 3 MR. JOHNSON: AGAIN, YOUR HONOR, WE ARE NOT 4 SEEKING TO CALL HIM DISHONEST AT ALL. IT'S JUST 5 THAT THE INTERA MODEL, WHEN WE VIEWED IT AND SAW 6 THE WORK THAT HAD BEEN DONE, WE HAD NO IDEA THAT IT 7 HAD BEEN DONE, AND CERTAINLY NOT HAD AN OPPORTUNITY TO MEET IT AND ADDRESS ITS CONCERNS. 8 9 MR. GREENBERG: YOUR HONOR, WE WERE SPECIFICALLY ASKED BY JUDGE ALTMAN IF THIS COULD BE 10 11 DONE. WE BOTH SPECIFICALLY STOOD THERE AND SAID 12 YES, AND THAT IS WHAT IS SO INFURIATING TO ME. 13 BOTH APPROVED IT. 14 THE COURT: AND THEN COUNSEL CALLED YOU A BLANKETY-BLANK LIAR WHEN THAT OCCURRED. 15 16 MR. GREENBERG: I UNDERSTAND THAT. BUT HE

MR. GREENBERG: I UNDERSTAND THAT. BUT HE ADMITS THAT THERE WAS A COLLOQUY. YOU SEE IN HIS DECLARATION THERE WAS NO COLLOQUY.

THE COURT: IS THERE A RECORD?

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MR. GREENBERG: THIS WOULD BE -- THERE IS NO RECORD. ALL WE HAVE TO ESTABLISH A RECORD IS MY DECLARATION, HIS DECLARATION, THE DECLARATION OF CHRIS FINLEY, AND A SEALED DECLARATION OF JUDGE ALTMAN THAT I HAVE HERE.

THE COURT: DID YOU SAY THAT COUNSEL WAS A BLANKETY-BLANK LIAR?

MR. JOHNSON: WHAT I SAID WAS -- WE HAD A TELEPHONE CONVERSATION WHERE HE TOLD ME HE -- HE

COMPLAINED ABOUT THE USE OF -- HE RECEIVED -- WE RECEIVED AN INVOICE FROM INTERA AND MR. GREENBERG CALLED ME AND COMPLAINED ABOUT IT IN TERMS OF THEIR BEING WORK BY HIS STAFF ON THERE, AND THEN I WROTE THIS LETTER WHEN I GOT JUDGE ALTMAN'S LETTER AND I WROTE BACK AND SAID, "JUDGE ALTMAN, WE DIDN'T AGREE TO THIS." AND MARK TOLD ME THAT HE DID NOT HAVE THAT CONVERSATION WITH ME. AND I DID HAVE A CONVERSATION WITH HIM. MY SECRETARY RECALLS ME HAVING A CONVERSATION WITH HIM ON A SPEAKER PHONE, AND I TOLD HIM "YOU ARE LYING."

MR. GREENBERG: WE HAD THE CONVERSATION

ABSOLUTELY. I SAID, "HOW MANY HOURS WAS PUT IN

HERE, IT IS A LOT OF MONEY?" I NEVER SAID IT WAS

UNAUTHORIZED. IF HE THOUGHT -- IF HE THOUGHT THAT

IT WAS UNAUTHORIZED HOURS OF WORK AND IN HIS MIND

HE THINKS I EVEN AGREE, HE HAS GOT EIGHT DAYS TO

CALL JUDGE ALTMAN AND SAY, "JUDGE, YOU KNOW WHAT,

YOU SHOULDN'T RELY WHATEVER ON THIS GUY." THAT IS

A WAIVER. THE SUPREME COURT SAYS THAT IS A WAIVER.

YOU HAD YOUR OPPORTUNITY, YOU DON'T GET TO GO BACK

AND SEE WHAT IT LOOKS LIKE.

I THINK THE COURT OUGHT TO MAKE A
FINDING ON WAIVER AS WELL, THAT HE WAIVED THIS
OBJECTION. HE KNEW ABOUT THIS. IF HE TRULY
THOUGHT THAT I WAS IN AGREEMENT, WHAT A BETTER
REASON THAN TO GO AND SAY, "YOU KNOW WHAT, JUDGE
ALTMAN, PLEASE DON'T CONSIDER THAT, HE HAS GOT

EIGHT DAYS LEFT IN DRAFTING YOUR AWARD." WE DON'T
KNOW THERE IS EIGHT DAYS, WE KNEW THERE WAS TIME,
IT WASN'T OUT THERE."

MR. JOHNSON: ON THAT ISSUE, I DIDN'T SAY ANYTHING ABOUT WHAT THE MAN DID. I HAD NO IDEA WHAT HE DID.

MR. GREENBERG: YOUR HONOR, HE ADMITS NOW
THAT THERE WAS A COLLOQUY WITH JUDGE ALTMAN ON THIS
WORK. AND HE SAYS, "WELL, I DIDN'T KNOW THE SCOPE
OR WHO ELSE WAS GOING TO WORK ON IT." WHY WOULD
JUDGE ALTMAN ASK US PERMISSION IF IT WASN'T GOING
TO BE SOMETHING BEYOND THE NORMAL REVIEW BY
DR. JACKSON THAT HE DID EVERYDAY? HE IS ADMITTING
THAT THERE WAS AN INQUIRY BY THE JUDGE OF WHETHER
SOMETHING COULD BE DONE.

MAKE THAT INQUIRY IF ALL IT WAS GOING TO BE IS
DR. JACKSON TAKING A LOOK AT THE TESTIMONY ON HIS
OWN OVER THE WEEKEND. IT DOESN'T MAKE SENSE. IT
ONLY MAKES SENSE WHEN YOU REALIZE THAT THE QUESTION
WENT BEYOND THAT AND THAT COUNSEL HAS COMPLETELY
LEFT THAT OUT OF HIS DECLARATION BECAUSE HE KNEW
ABOUT 703.5 AND FIGURED THAT YOU ARE NEVER GOING TO
KNOW WHAT REALLY HAPPENED FROM JUDGE ALTMAN.

MR. JOHNSON: YOUR HONOR, THE FACT IS

DR. JACKSON WAS GOING TO REVIEW DR. HUNTLEY'S WORK.

I DID NOT VIEW THAT AS BEING ANYTHING OUT OF THE

ORDINARY AT ALL. LIKE I SAID, THE ONLY THING WE

1	ARE COMPLAINING ABOUT IS THE INTERA MODEL. WHEN WE
2	SAW THAT, THAT SEEMS TO BE BEYOND THE SCOPE OF WHAT
3	WE HAD DEALT WITH. IT SEEMED TO BE AN INDEPENDENT
4	ANALYSIS BY THE TECHNICAL ADVISOR THAT THE PARTIES
5	HAD SAID SPECIFICALLY REQUESTED THAT THE TECHNICAL
6	ADVISOR NOT PERFORM.
7.	MR. GREENBERG: IT DOESN'T MAKE ANY SENSE.
8	WHY WOULD JUDGE ALTMAN HAVE TO ASK OUR PERMISSION
9	IF IT WAS GOING TO BE THE STANDARD EVERYDAY REVIEW
10	BY DR. JACKSON. HE ADMITS PERMISSION WAS ASKED.
11	WHY WOULD THAT BE NECESSARY?
12	THE COURT: POINT ME TO THE DECLARATION.
13	MR. GREENBERG: OF WHO'S DECLARATION?
14	THE COURT: ALL OF THE ONES YOU RELY UPON AT
15	THIS POINT.
16	MR. GREENBERG: MY DECLARATION AND CHRIS
17	FINLEY'S DECLARATION.
18	THE COURT: MAKE A FULL PRESENTATION TO ME
19	ABOUT WHY I SHOULDN'T BELIEVE OPPOSING COUNSEL'S
20	DECLARATION. SHOW ME THE PARAGRAPHS.
21	MR. GREENBERG: MY DECLARATION IT IS PAGE 5
22	OF PARAGRAPH 11.
23	THE COURT: WHAT IS YOUR FILING DATE HERE?
24	MR. GREENBERG: JULY 7, YOUR HONOR.
25	THE COURT: PAGE 5, PARAGRAPH 11.
26	MR. GREENBERG: YES. ADDITIONALLY, IT WOULD
27	BE CHRIS FINLEY'S DECLARATION
28	THE COURT: WAIT A MINUTE.

1	THE COURT: FINLEY, YOU SAID?
2	MR. GREENBERG: YES, CHRIS FINLEY'S
3	DECLARATION FILED THE SAME TIME, PAGE 3, PARAGRAPH
4	10.
5	THE COURT: OKAY. AND WHAT ELSE?
6	MR. GREENBERG: YOUR HONOR, ADDITIONAL
7	EVIDENCE WOULD BE WHAT THE COURT HAS YET TO RULE
8	ON.
9	THE COURT: YOU SAID BY REVIEWING OPPOSING
10	COUNSEL'S DECLARATION.
11	MR. GREENBERG: WELL, HE NEVER MENTIONS THAT
12	THERE WAS A DISCUSSION WHATSOEVER DURING THE
13	ARBITRATION.
14	THE COURT: THE PARAGRAPHS.
15	MR. GREENBERG: WELL, IT JUST DOESN'T EXIST.
16	THERE IS NO HE NEVER SAYS THAT THERE WAS EVER
17	THIS COLLOQUY. WHAT HE DOES, YOUR HONOR
18	THE COURT: WELL, WAIT A MINUTE. THE FILING
19	SUBSEQUENT TO YOURS?
20	MR. GREENBERG: THE FILING SUBSEQUENT TO
21	THE COURT: WHAT IS THAT CALLED?
22	MR. JOHNSON: CALLED SFPP'S RESPONSE, I
23	BELIEVE, YOUR HONOR.
24	MR. GREENBERG: I THINK
25	MR. JOHNSON: IT IS ATTACHED TO IT.
26	THE COURT: FILED JULY 10?
27	MR. JOHNSON: YES, YOUR HONOR.
28	THE COURT: WHAT IS YOUR POINT ABOUT THIS

DECLARATION?

MR. GREENBERG: WELL, YOUR HONOR, MY POINT IS
IN HIS ORIGINAL ARGUMENTS TO THIS COURT, HE DOESN'T
EVEN TELL YOU THAT THERE IS A COLLOQUY, DOESN'T
EVEN TELL YOU THAT JUDGE ALTMAN BROUGHT IT UP AND
ASKED FOR PERMISSION FOR ANYTHING.

HE WRITES ME A LETTER AND SAYS "703.5

THIS, AND THE HEARSAY RULES PREVENT YOU TELLING

JUDGE DAU WHAT HAPPENED EITHER." NOW, I HAVE AN

INDICATION RIGHT HERE THAT I CAN PROVIDE THE COURT,

CARROW (REPORTER SPELLING) VS. SMITH, WHICH IS

CITED IN THE ANNOTATED CODE UNDER 703.5, WHICH VERY

CLEARLY STATES IN AN ARBITRATION CASE THAT 703.5,

WHAT THEY SAY IS:

"THIS IS ANOTHER CASE WHERE AN ATTORNEY IS

CHALLENGING THE

ADMISSIBILITY OF EVIDENCE

AND WHAT WENT ON ON THE

BASIS OF HEARSAY AND

EVIDENCE CODE 703.5.

"TO PUT IT MILDLY AS

WE CAN, THEY ARE WRONG

AGAIN. THE ARBITRATOR'S

COLLOQUY WAS OFFERED TO

SHOW NOTICE, NOT FOR THE

TRUTH OF THE MATTER

ASSERTED."

1	IT GOES ON WHY THIS IS ADMISSIBLE AND
2	WHY 703.5 ONLY MENTIONS WHETHER OR NOT THE
3	ARBITRATOR CAN TESTIFY. CERTAINLY IT HAS NOTHING
4	TO DO WITH WHETHER OR NOT I CAN TELL YOU WHAT
5	HAPPENED DURING THAT HEARING. HERE HE IS WRITING A
6	LETTER TO ME TELLING ME I CAN'T TELL YOU WHAT
7	HAPPENED, THAT I CAN'T EVEN MENTION THIS COLLOQUY
8	WITH JUDGE ALTMAN.
9	THE COURT: THAT IS NOT SOMETHING I HAVE;
1.0	RIGHT?
11	MR. GREENBERG: I HAVE GOT THE LETTER RIGHT
12	HERE, AND I HAVE GOT CARROW VS. SMITH RIGHT HERE.
13	HE IS TRYING TO SILENCE ME AND SILENCE ANY EVIDENCE
1 4	TO THIS COURT OF WHAT WENT ON.
15	THE COURT: YOU HAD ALREADY SAID WHAT WENT
16	ON.
17	MR. JOHNSON: THAT'S TRUE, YOUR HONOR. AND
18	YOUR HONOR, ON THE HEARSAY ISSUE, THE TRABUCO CASE,
19	T-R-A-B-U-C-O, SAYS THAT HEARSAY STATEMENTS ARE
20	LIKELY INADMISSIBLE UNDER 703.5.
21	MR. GREENBERG: YOUR HONOR, LET'S TAKE
22	THE COURT: HEARSAY STATEMENTS, WHAT ARE YOU
23	TALKING ABOUT?
24	MR. JOHNSON: THE STATEMENTS BY COUNSEL THAT
25	ARE IN THE RECORD ALREADY AS TO WHAT JUDGE ALTMAN
26	SAID.
27	THE COURT: THAT IS NOT A HEARSAY STATEMENT.
28	MR. JOHNSON: THE TRABUCO CASE

26

27

28

THE COURT: IT IS NOT OFFERED FOR THE TRUTH OF WHAT JUDGE ALTMAN SAID, IT'S OFFERED TO SHOW WHAT JUDGE ALTMAN SAID. THAT'S NOT HEARSAY.

MR. GREENBERG: ALSO OFFERED TO SHOW THAT HE HAD NOTICE AND WHAT WAS SAID, THE LETTER THAT SAYS "DON'T FILE ANYTHING THAT WILL TELL JUDGE DAU WHAT HAPPENED." AND I HAVE TRABUCO AND CARROW VS. SMITH, THEY ARE HIGHLIGHTED. I CAN SHOW YOU WHY TRABUCO SAYS HEARSAY IS NOT ADMISSIBLE AND --

MR. GREENBERG: HE IS CLAIMING THAT ME TELLING YOU WHAT HAPPENED DURING THE ARBITRATION IS HEARSAY AND THAT I AM PROHIBITED FROM DOING SO UNDER 703.5 AS WELL. HE IS TRYING TO SILENCE ME.

MR. JOHNSON: IF I CAN FRAME THE ISSUE HERE. THE ISSUE CAME UP AS FOLLOWS. MR. GREENBERG WAS TELLING ME HE WAS GOING TO USE A LETTER FROM JUDGE ALTMAN ABOUT WHAT HAPPENED AND I VIEWED THAT TO BE A 703.5 PROBLEM, THE ARBITRATOR'S DISCUSSIONS, WHAT HE DID, AND THAT IS WHAT I CONTEND IS THE 703.5

MR. GREENBERG: LET ME SHOW YOU WHAT HE IS TALKING ABOUT. THAT IS ABSOLUTELY WRONG. MAY I?

THE COURT: ALL RIGHT. YOU ARE HANDING ME A JULY 3 LETTER FROM MR. JOHNSON TO YOURSELF?

MR. GREENBERG: YES. AND MR. JOHNSON HAS ALL OF THESE IN THE SAME PACKET THAT YOU HAVE THERE, THE LETTER BEFORE THAT TO ME TELLS ME THAT I CAN'T

1 SUBMIT ANYTHING TO CLAIM ANYTHING FROM JUDGE 2 ALTMAN. MR. JOHNSON: THERE WAS TWO LETTERS ON THE 3 TOPIC. I MAY HAVE GOTTEN THE DATES WRONG. 4 THE COURT: WELL, I DON'T THINK ANY STATEMENT 5 BY JUDGE ALTMAN WOULD COME WITHIN 703.5. 6 7 MR. GREENBERG: OKAY. MAY I PROVIDE THE COURT --8 9 THE COURT: BECAUSE THE STATEMENTS THAT YOU CITE IN YOUR DECLARATION BY JUDGE ALTMAN COULD NOT 10 GIVE RISE TO ANY OF THESE THINGS MENTIONED IN 11 703.5. 12 13 MR. GREENBERG: 703.5 GOES ONLY TO WHETHER OR 14 NOT JUDGE ALTMAN CAN STAND BEFORE YOU OR PROVIDE A DECLARATION, NOT WHETHER I CAN SAY WHAT JUDGE 15 16 ALTMAN SAID DURING THE HEARING. 17 THE COURT: I AGREE. 18 MR. GREENBERG: WHAT HIS LETTER SAYS, I DON'T 19 GET TO TELL YOU WHAT HAPPENED AND HE IS SAYING 20 TRABUCO SAYS IT'S HEARSAY, AND I HAVE TRABUCO AND I 21 CAN SHOW YOU THE REFERENCE THAT --22 THE COURT: YOU ARE ASKING FOR JUDGE ALTMAN 23 TO TESTIFY? 24 MR. GREENBERG: I AM ASKING FOR JUDGE 25 ALTMAN -- FOR THE COURT TO CONSIDER A DECLARATION 26 FROM JUDGE ALTMAN AS TO WHETHER OR NOT HE ASKED FOR 27 PERMISSION AND WHETHER OR NOT IT WAS GRANTED. 28 THE COURT BELIEVES WE ARE NOT WITHIN THE EXCEPTION,

THEN IT WILL STAY IN THIS SEALED ENVELOPE. 1 THE COURT: JUDGE ALTMAN'S STATEMENT 2 ACCORDING TO THE --3 MR. GREENBERG: IT IS THE MISCONDUCT, IT IS 4 WHETHER HIS CONDUCT COULD GIVE RISE AND WHAT THE 5 ALLEGED CONDUCT IS HE EXCEEDED HIS AUTHORITY AS AN 6 7 ARBITRATOR IN VIOLATION OF HIS DUTIES AND IN VIOLATION OF THE STANDARD 12. IT'S NOT THE 8 9 STATEMENTS THAT GIVES RISE, IT'S WHETHER HIS CONDUCT WOULD GIVE RISE. THERE IS ALSO AN ISSUE OF 10 WHETHER OR NOT --11 THE COURT: TO GET INTO THIS IS DISTASTEFUL 12 13 BEYOND BELIEF. MR. GREENBERG: WELL, YOUR HONOR, I THINK 14 15 THAT THE COURT CAN MAKE THE FINDINGS THAT IT 16 ALREADY HAS. 17 THE COURT: IS HE OBJECTING TO RECEIPT OF A 18 DECLARATION BY JUDGE ALTMAN? MR. JOHNSON: YOUR HONOR, I THINK THAT DOES 19 20 VIOLATE 703.5, YES. THE COURT: AND TELL ME HOW IT DOES? 21 MR. JOHNSON: BECAUSE THE DECLARATION, IT GOES 22 TO THE THOUGHT PROCESS AND MERITS, IT IS NOT WITHIN 23 24 THE EXCEPTION AS YOU POINTED OUT. AGAIN, WE ARE 25 NOT ALLEGING -- WE ARE ALLEGING THAT HE EXCEEDED 26 HIS AUTHORITY UNDER 1282.2. 27 THE COURT: HAVE YOU SEEN HIS STATEMENT? 28 MR. JOHNSON: YES, I HAVE, YOUR HONOR.

THE COURT: WELL, IT JUST HAS TO BE IN THE
NATURE OF AN OFFER OF PROOF, DOESN'T IT? HOW CAN I
TELL IF IT WOULD VIOLATE 703.5 UNLESS I SEE IT.

MR. GREENBERG: BECAUSE IT IS A QUESTION OF

IF HE EXCEEDED HIS AUTHORITY -- IF HE IN -- JUDGE

ALTMAN IN HIS DECLARATION IS GOING TO TELL YOU WHAT

HAPPENED, NOT HIS THOUGHT PROCESS, BUT WHAT

HAPPENED. ONE OF US ISN'T TELLING YOU THE TRUTH.

HE IS GOING TO TELL YOU WHAT HE RECALLS.

FOR HIM TO HAVE ALLOWED HIS TECHNICAL ADVISOR TO GO OFF AND DO THIS WORK AND RELY ON IT, THEY SAY IS IMPROPER AND VIOLATED HIS CANONS OF ETHICS, AND SO THAT POSSIBLY CAN GIVE RISE TO AN INVESTIGATION. I THINK IT COULD POSSIBLY GIVE RISE TO AN INVESTIGATION.

BUT MR. JOHNSON'S CONDUCT IN THIS WHOLE NOTION OF WHO IS TELLING THE TRUTH, COULD IT GIVE RISE TO A CONTEMPT? YES, IT CONCEIVABLY COULD IF THE COURT WOULD FIND THAT HIS DECLARATION IS MISLEADING.

MR. JOHNSON: YOUR HONOR, ON THAT POINT, THE GROUNDS FOR RETURNING THE ARBITRATION AWARD ARE VERY NARROW. THIS COULD GIVE RISE TO AN INVESTIGATION. IT COULD BE READ TO ESSENTIALLY MEAN THAT 703.5 HAS NO MEANING BECAUSE, AS COUNSEL HAS POINTED OUT, THERE IS A WHOLE HOST OF CONDUCT THAT COULD POTENTIALLY GIVE RISE TO AN INVESTIGATION.

1	MR. GREENBERG: NOT WHEN YOU ALLEGE
2	MISCONDUCT.
3	MR. JOHNSON: HERE YOU HAVE ALREADY FOUND
4	THAT HE IS NOT A MEMBER OF THE STATE BAR AND THERE
5	IS NO EVIDENCE THAT HE IS SUBJECT TO JUDICIAL
6	REVIEW.
7	THE COURT: WELL, I DON'T KNOW.
8	MR. GREENBERG: HE BELIEVES HE IS.
9	THE COURT: THE ISSUE I HAVE IS AN ISSUE THAT
10	I HAVE NEVER HAD TO EXAMINE, BUT I WOULD BE
11	SURPRISED TO FIND THE COMMISSION ON JUDICIAL
12	PERFORMANCE EXTENDS TO RETIRED JUDGES.
13	MR. GREENBERG: WELL, YOUR HONOR, THAT IS A
14	QUESTION THAT JUDGE ALTMAN IS STANDING BY PHONE AND
15	WILLING TO TALK TO THE COURT. WE COULD CALL HIM
16	AND ASK HIM THAT QUESTION IF THAT WOULD HELP YO
17	MAKE THE EVIDENTIARY DETERMINATION.
18	THE COURT: I DON'T WANT TO GET INTO THIS. I
19	THINK THE TENTATIVE THAT I HAVE GIVEN YOU RESOLVES
20	THE MATTER.
21	MR. GREENBERG: IT DOES.
22	THE COURT: GET YOURSELF UP TO THE COURT OF
23	APPEAL IF YOU DON'T LIKE IT.
24	MR. GREENBERG: IT DOES, YOUR HONOR, AND WE
25	WILL BE ADDRESSING THESE ISSUES.
26	THE COURT: HAVE A NICE DAY.
27	MR. JOHNSON: THANK YOU, YOUR HONOR.
28	THE COURT: I AM GOING TO BE ISSUING AN ORDER

1	
2	ORIGINAL FILED
3	OCT 3 1 2003
4	LOS ANGELES
5	SUPERIOR COURT
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7	SUPERIOR COURT OF THE STATE OF CALIFORNIA
8	FOR THE COUNTY OF LOS ANGELES
9	FOR THE COUNTY OF LOS ANGELES
10 11	
12	TEXACO REFINING AND) CASE NO. BS083707
13	MARKETING, INC., etc., et al., JUDGMENT
14	Petitioners,
15	vs.
16	SFPP, L.P., etc.,
17	Respondent.
18	
19	The court having granted the petition of Shell Oil Company, Texaco, Inc., Texaco
20	Refining and Marketing Inc., Equiva Services LLC, and Equilon Enterprises LLC
21	("petitioners") for confirmation of the arbitration award,
22	IT IS ORDERED, ADJUDGED, AND DECREED:
23	1. Shell and Texaco have not breached any provision of their leases, and in the
24	case of Texaco, of its Indenture, and are not obligated to indemnify SFPP or to vacate
25	their properties.
26	2. SFPP, L.P., ("SFPP") is obligated to conduct all the remediation efforts and to
27	comply with all Health Department and Water Board Orders relating to the remediation
28	
	JUDGMENT

of the soil and groundwater at Mission Valley Terminal and Qualcomm Stadium parking lot.

- 3. SFPP is obligated to conduct all future remediation and cleanup work on or under the Shell and Texaco properties and on or under all properties at the Mission Valley Terminal subject to SFPP's control and on or under the entire Qualcomm Stadium parking lot and on or under any locations to which the existing contamination may spread. If, after March 21, 2003 (the date of the arbitrator's award), Shell and/or Texaco should experience a new spill or a new release at the Mission Valley Terminal, then Shell and/or Texaco, as the case may be, shall be obligated to conduct remediation of that spill or release.
- 4. SFPP is obligated to perform the cleanup and abatement described above and to indemnify and hold harmless Texaco and Shell for any liability arising out of SFPP's failure to do the cleanup work and any failure to comply with past or future orders of the Health Department and Water Board related to the cleanup work.
- 5. Petitioners do have and recover judgment against respondent SFPP in the amount of \$1,227,000.00 (consisting of reimbursement of costs previously incurred by petitioners that should have been incurred by SFPP because the costs relate to investigation, remediation and cleanup of the core plume, including a stipulated amount for sanctions), and respondent do have and recover judgment against petitioners in the amount of \$715,000.00 (consisting of costs of future cleanup of the Shell and former Texaco terminal properties and any off-site cleanup costs), resulting in a net amount owed to petitioners by SFPP of \$512,000.00.

Dated: October 31, 2003

Ralph W. Dau, Judge

leskoves